



# CITY OF MIAMI

CAPITAL IMPROVEMENTS & TRANSPORTATION PROGRAM

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## CURTIS PARK NEW POOL FACILITY - SITE CIVIL AND ENVIRONMENTAL

B-35806

1901 NW 24 Avenue, Miami, Florida

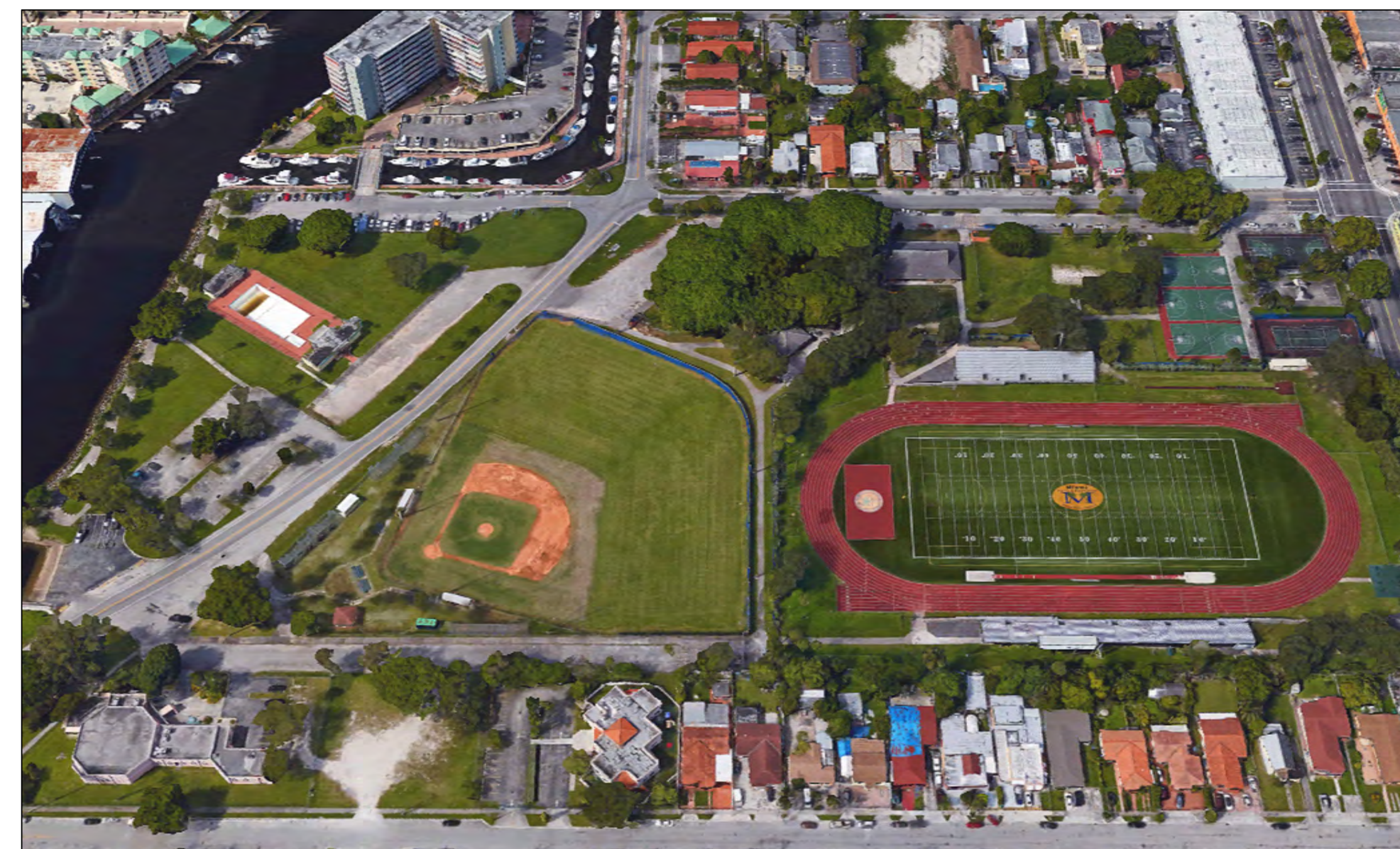
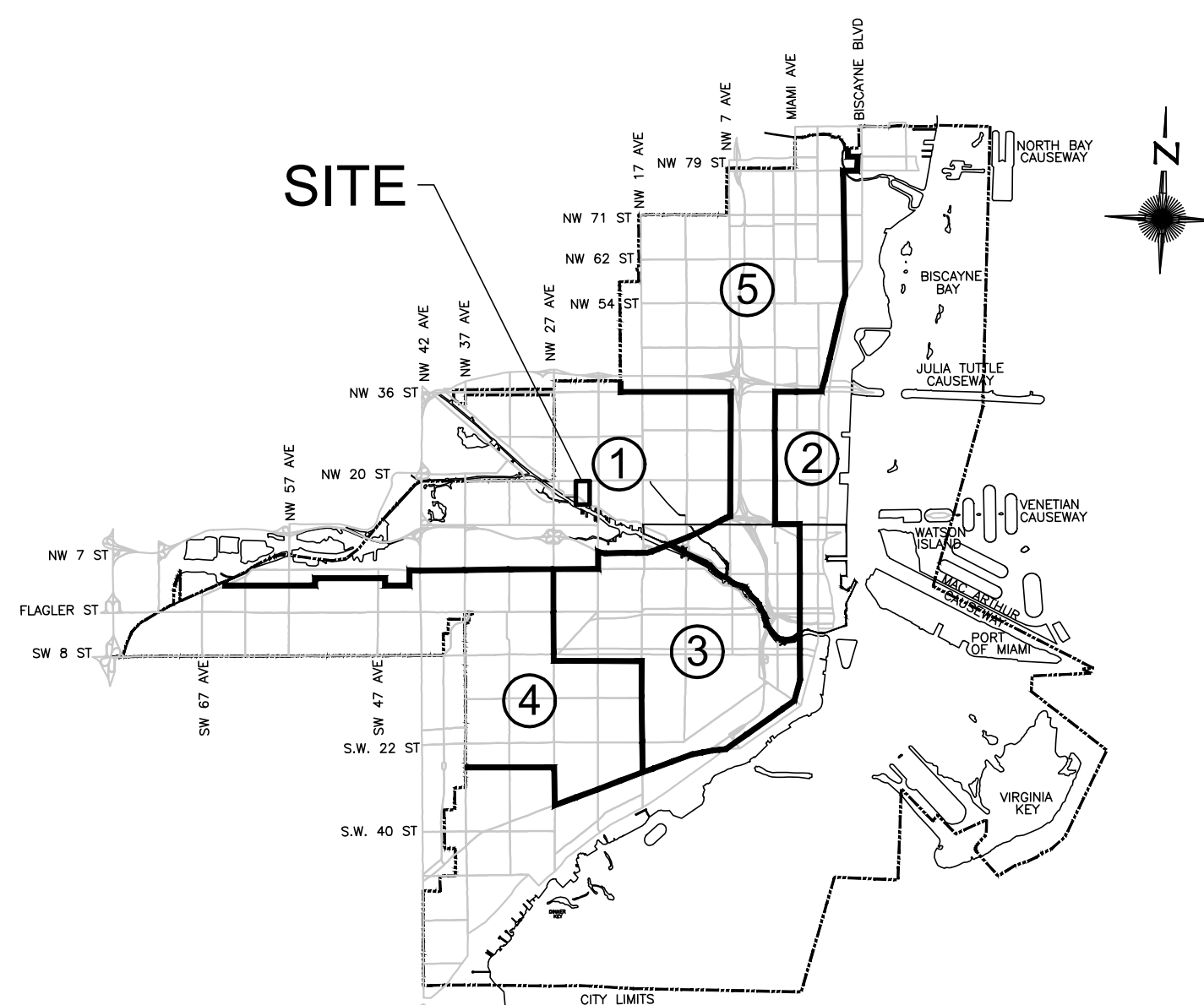
Bid Set - August 2016



CITY OF MIAMI  
CAPITAL IMPROVEMENTS &  
TRANSPORTATION PROGRAM

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CONSULTING ENGINEERS, INC.  
7700 N. KENDALL DRIVE, SUITE 300  
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FLORIDA CERTIFICATE OF AUTHORIZATION NO. 00004892  
WWW.SCSENGINEERS.COM  
SCS PROJECT NO. 09215101.00

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Seal:

WILLIAM D. HEIKKINEN, P.E.  
FL. REG. No. 78529



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**IX. STORMWATER NOTES:**

- A. DISTANCES AND LENGTHS SHOWN ON PLANS REFERENCED TO THE CENTER OF STRUCTURE UNLESS SPECIFIED OTHERWISE ON THE PLANS.
- B. LIFT HOLES THROUGH PRECAST STRUCTURES ARE NOT PERMITTED.
- C. ALL CEMENT USED ON DRAINAGE STRUCTURES SHALL BE TYPE II PORTLAND CEMENT CONFORMING TO ASTM SPECIFICATIONS C-150 AASHTO DESIGNATION M-85.
- D. UNLESS OTHERWISE NOTED ON THE PLANS, STRUCTURES SHALL BE PRECAST CONCRETE SECTIONS.
- E. MORTAR FOR USE IN CONSTRUCTION AND PLASTERING STRUCTURES SHALL CONFORM TO ASTM C-270 SPECIFICATIONS FOR MORTAR FOR UNIT MASONRY. A PORTLAND CEMENT HYDRATED LIME MIXTURE OR A MASONRY CEMENT MAY BE USED PROVIDED THAT THE SAME MATERIALS ARE USED THROUGHOUT THE PROJECT.
- F. MORTAR MATERIALS SHALL BE PROPORTIONED BY VOLUME AND SHALL CONSIST OF ONE PART TYPE II PORTLAND CEMENT TO TWO PARTS AGGREGATE (SAND), PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, "SPECIFICATIONS FOR PORTLAND CEMENT", AGGREGATE SHALL CONFORM TO ASTM C-144 "SPECIFICATIONS FOR AGGREGATE FOR MASONRY UNITS".
- G. PRECAST MANHOLE SECTIONS SHALL CONFORM TO ASTM C-478, SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE MANHOLE SECTIONS AS MODIFIED THERE TO. CONCRETE SHALL BE TYPE II ACID RESISTANT AND ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. MINIMUM WALL THICKNESS SHALL BE 8 INCHES AND MINIMUM INSIDE DIAMETER SHALL BE 48 INCHES. THE INSIDE OF ALL STRUCTURES SHALL BEAR THE APPROVAL OF A CERTIFIED TESTING LABORATORY WHEN DELIVERED TO THE JOB SITE.
- H. REFER TO FDOT INDEX 200 FOR ADDITIONAL DETAILS AND SPECIFICATIONS.
- I. WALL REINFORCEMENT AND THICKNESS FOR PRECAST STRUCTURES SHALL BE IN ACCORDANCE WITH ASTM C-478.
- J. ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60, ALL COVER SHALL BE 3 INCHES MINIMUM.
- K. THE BASE AND WALLS THAT COMPOSE THE BOTTOM SECTION OF THE PRECAST STRUCTURES SHALL BE OF MONOLITHIC CONSTRUCTION, 8 INCHES THICK AND THE EDGE OF THE BASE SLAB SHALL PROJECT A MINIMUM OF 4 INCHES BEYOND THE OUTSIDE DIAMETER OF THE WALL.
- L. HOLES FOR PIPING SHALL BE 6 INCHES LARGER THAN THE OUTSIDE DIAMETER OF THE RESPECTIVE PIPES. AFTER THE PIPE IS SET, THE VOID SPACE BETWEEN THE PIPE AND THE HOLE PERIMETER SHALL BE COMPLETELY FILLED WITH NON-SHRINK, QUICK SETTING, WATERPROOF CEMENT MORTAR AND STRUCK SMOOTH.
- M. THE MINIMUM HEIGHT OF PRECAST BASE SECTION SHALL BE 36 INCHES FROM THE BOTTOM OF THE BASE SLAB. HOWEVER, NO HOLES FOR PIPING SHALL BE CAST LESS THAN 8 INCHES FROM THE TOP OF THE BASE SECTION OR LESS THAN 2 INCHES ABOVE THE TOP OF THE BASE SLAB.
- N. ALL CASTING SHALL BE TRUE TO PATTERN AND DIMENSIONS, FREE FROM FAULTS OR DEFECTS AND WELL CLEANED.
- O. BEARING SURFACES BETWEEN CAST FRAMES, COVERS AND GRATES SHALL BE MACHINED AND FITTED TOGETHER TO ASSURE A TRUE AND EVEN FIT. WITHIN AREAS OF VEHICULAR TRAFFIC THE FRAMES, COVERS AND GRATING SHALL BE MACHINE-GROUND SO THAT IRREGULARITY OF CONTACT WILL BE REDUCED TO A MINIMUM AND WILL BE RATTLE PROOF.
- P. ALL STRUCTURES SHALL BE SET PLUMB TO LINE AND GRADE AND SHALL REST ON A FIRM CAREFULLY GRADED SUB-GRADE WHICH SHALL PROVIDE UNIFORM BEARING UNDER BASE.
- Q. LOCATION OF DRAINAGE STRUCTURES GOVERN. ADJUST PIPE LENGTHS AS REQUIRED.
- R. ALL PIPE SHALL BE CAREFULLY LAID, TRUE TO THE LINES AND GRADES GIVEN, ANY PIPE THAT IS NOT IN TRUE ALIGNMENT OR WHICH SHOWS ANY SETTLEMENT AFTER INSTALLATION SHALL BE RE-INSTALLED AT NO ADDITIONAL COST TO THE CITY.
- S. MORTAR USED TO SEAL THE PIPE INTO THE WALLS OF THE PRECAST STRUCTURES WILL BE OF SUCH A MIX THAT SHRINKAGE WILL NOT CAUSE LEAKAGE IN OR OUT OF THE STRUCTURES. THE OPENING THROUGH WALLS FOR PIPE SHALL BE THE OUTSIDE DIAMETER PLUS 6 INCHES.
- T. ALL MUCK OR OTHER UNSTABLE MATERIAL ENCOUNTERED IN TRENCH BOTTOM SHALL BE ADDRESSED AS SHOWN ON THE DETAILS. BACKFILL TRENCH WITH GRANULAR MATERIAL COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180, METHOD 'D'.
- U. UPON COMMENCEMENT OF CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL INSPECT AND CLEAN ALL EXISTING STRUCTURES AND PIPES TO REMAIN IN SERVICE WITHIN THE PROJECT LIMITS. IF EXISTING STRUCTURES AND PIPES ARE DAMAGED, CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONNECTION WITH THE NEW PIPING AND/OR STRUCTURE(S).
- V. DURING CONSTRUCTION OPERATIONS, CONTRACTOR IS TO PREVENT INTRODUCTION OF DEBRIS OR DIRT INTO EXISTING STORM DRAINAGE AND/OR SANITARY SEWERS SYSTEMS AS A RESULT OF CONSTRUCTION ACTIVITIES. ALL EXISTING DRAINAGE PIPING AND STRUCTURES TO REMAIN IN SERVICE WITHIN THE PROJECT LIMITS SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
- W. DURING CONSTRUCTION OPERATIONS, CONTRACTOR SHALL PROTECT COMPLETED DRAINAGE SYSTEM FROM CONTAMINATION BY SILT AND CONSTRUCTION DEBRIS. PLACE PLYWOOD OR FILTER FABRIC BETWEEN THE FRAME AND INLET GRATE UNTIL SITE CONSTRUCTION OPERATIONS ARE FINISHED.
- X. THE CONTRACTOR SHALL FURNISH THE ENGINEER SHOP DRAWINGS OF THE PRECAST STRUCTURES (AND CERTIFICATIONS FROM A TESTING LABORATORY) FOR APPROVAL. SHOP DRAWINGS SHOULD ILLUSTRATE ALL DIMENSION, REINFORCEMENT AND SPECIFICATIONS FOR THE COMPLETE STRUCTURE.
- Y. PIPE BEDDING SHALL BE SAND, GRAVELLY SAND, OR 1-INCH MINUS CRUSHED LIMESTONE, NOT MORE THAN 10% OF WHICH PASSES A NO. 200 SIEVE.
- Z. CONTRACTOR TO WRAP ALL PIPE JOINTS AND PIPE CONNECTIONS TO STRUCTURES WITH APPROVED FILTER FABRIC.
- AA. ALL DRAINAGE STRUCTURES SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF CITY OF MIAMI PUBLIC WORKS DEPARTMENT, FDOT, MDC DERM AND THE MDC PUBLIC WORKS.
- AB. ON COMPLETION OF EACH SECTION OF DRAINAGE SYSTEM, THE SECTION OF THE SYSTEM IS TO BE CLEANED AND INSPECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. INSPECTION SHALL BE PERFORMED BY LAMPING EACH SECTION BETWEEN STRUCTURES. IN EXAMINATION FROM EITHER END, SHALL SHOW A FULL CIRCLE OF LIGHT. ALL REPAIRS SHOWN NECESSARY BY THE INSPECTION ARE TO BE MADE; COLLAPSED PIPE REPLACED, ALL DEPOSITS REMOVED AND DRAIN LINE LEFT TRUE TO LINE AND GRADE ENTIRELY CLEAN AND READY FOR USE. CONTRACTOR SHALL PROVIDE AS-BUILTS SIGNED AND SEALED BY A REGISTERED PROFESSIONAL LAND SURVEYOR PRIOR TO THE INSPECTION.

**X. PAVEMENT MARKINGS AND SIGNAGE**

- A. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND IN COMPLIANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 711 THERMOPLASTIC TRAFFIC STRIPES AND MARKINGS."
- B. ALL PAVEMENT MARKINGS SHALL CONFORM TO THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "ROADWAY AND TRAFFIC DESIGN STANDARDS," LATEST EDITION, AND TO THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION.
- C. ALL EXISTING MARKINGS IN CONFLICT WITH THE PROPOSED DESIGN SHALL BE REMOVED.
- D. TRAFFIC / PARKING LOT SIGNS:
  - 1. MATERIALS: FOLLOW SECTION 700 OF THE FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," LATEST EDITION; AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"(MUTCD) BY THE U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
  - 2. PLACEMENT: IN ACCORDANCE WITH PART 2 OF THE MUTCD.
- E. ALL TRAFFIC CONTROL SIGNAGE, EQUIPMENT AND MATERIALS TO BE APPROVED BY MIAMI-DADE PUBLIC WORKS DEPARTMENT TRAFFIC SIGNALS AND SIGNS DIVISION PRIOR TO INSTALLATION.

**XI. INSPECTIONS**

- A. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD, AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION AT LEAST 72 HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO THE INSPECTION OF THE FOLLOWING ITEMS, WHERE APPLICABLE:
  - 1. DEMOLITION
  - 2. CLEARING AND EARTHWORK
  - 3. HAULING AND OFFSITE DISPOSAL
  - 4. SUBGRADE
  - 5. MILLING, RESURFACING AND RE-STRIPPING
  - 6. 8-OZ NON-WOVEN GEOTEXTILE
  - 7. CLEAN FILL PAD FOR NEW POOL FOUNDATION
  - 8. FINAL GRADING
  - 9. BONDED RUBBER MULCH
  - 10. CONCRETE CURBING AND SIDEWALK
  - 11. ASPHALT PAVING
  - 12. DRAINAGE INSTALLATION
  - 13. GRAVITY WELL TESTING
  - 14. FINAL

**XII. SHOP DRAWINGS**

- A. PRIOR TO THEIR CONSTRUCTION OR INSTALLATION, SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD FOR THE FOLLOWING: 70-30 SOIL MIX, CLEAN FILL, 8-OZ NON-WOVEN GEOTEXTILE AND BONDED RUBBER MULCH. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL OTHER AGENCY APPROVALS IF REQUIRED.

**XIII. TEMPORARY FACILITIES**

- A. GENERAL:
  - 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR OR SUPPLY TEMPORARY WATER SERVICE, SANITARY FACILITIES AND ELECTRICITY, AS NEEDED.
- B. TRAFFIC REGULATIONS:
  - 1. MAINTENANCE OF TRAFFIC IN THE PUBLIC RIGHTS-OF-WAY SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICE (M.U.T.C.D.) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS & SPECIFICATIONS.
  - 2. NO TRENCHES OR HOLES ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS, UNLESS IN ACCORDANCE WITH METHODS APPROVED BY THE ENGINEER OF RECORD AND THE OWNER.

**XIV. PROJECT CLOSEOUT**

- A. CLEANING UP:
  - 1. DURING CONSTRUCTION, THE PROJECT SITE AND ALL ADJACENT AREAS SHALL BE MAINTAINED IN A NEAT AND CLEAN MANNER, AND UPON FINAL CLEAN-UP, THE PROJECT SITE SHALL BE LEFT CLEAR OF ALL SURPLUS MATERIAL OR TRASH. THE PAVED AREAS SHALL BE BROOM SWEEP CLEAN.
  - 2. THE CONTRACTOR SHALL RESTORE OR REPLACE, WHEN AND AS DIRECTED BY THE ENGINEER OF RECORD, ANY PUBLIC OR PRIVATE PROPERTY DAMAGED BY HIS WORK, EQUIPMENT, OR EMPLOYEES, TO A CONDITION AT LEAST EQUAL TO THAT EXISTING IMMEDIATELY PRIOR TO THE BEGINNING OF OPERATIONS. TO THAT END, THE CONTRACTOR SHALL DO, AS REQUIRED, ALL NECESSARY HIGHWAY, DRIVEWAY, SIDEWALK AND LANDSCAPING WORK. SUITABLE MATERIALS AND METHODS SHALL BE USED FOR SUCH RESTORATION.
  - 3. WHERE MATERIAL OR DEBRIS HAS WASHED, FLOWED INTO OR HAS BEEN PLACED IN WATER COURSES, DITCHES, DRAINS, CATCH BASINS, OR ELSEWHERE AS A RESULT OF THE CONTRACTOR'S OPERATIONS, SUCH MATERIAL OR DEBRIS SHALL BE REMOVED AND SATISFACTORILY DISPOSED OF DURING THE PROGRESS OF THE WORK, AND THE AREA KEPT IN A CLEAN AND NEAT CONDITION.
- B. ALL PROPERTY MONUMENTS OR PERMANENT REFERENCES, REMOVED OR DESTROYED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE RESTORED BY A STATE OF FLORIDA REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- C. ALL UNPAVED SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED BEFORE CONSTRUCTION.
- D. PROJECT RECORD DOCUMENTS:
  - 1. DURING THE DAILY PROGRESS OF THE JOB, THE CONTRACTOR SHALL RECORD ON HIS SET OF CONSTRUCTION DRAWINGS THE EXACT LOCATION, LENGTH, MATERIAL AND ELEVATION OF ANY ITEM NOT BUILT EXACTLY ACCORDING TO PLANS.
  - 3. CONTRACTOR SHALL FURNISH WRITTEN AND DOCUMENTED VERIFICATION OF THE SOIL EXCAVATION DEPTH TO THE ENGINEER OF RECORD. IN ADDITION, CONTRACTOR SHALL PROVIDE SUFFICIENT TIME FOR THE CITY'S ON-SITE REPRESENTATIVES TO OBSERVE THE EXCAVATION DEPTHS PRIOR TO FILLING ACTIVITIES.
  - 4. UPON COMPLETION OF CONTAMINATED SOIL EXCAVATION AND OFF-SITE HAULING, CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD "AS-BUILT" PLANS FOR BOTH THE SUBGRADE AND FINAL GRADE. THE "AS-BUILT" PLANS SHALL SHOW PERTINENT GRADES THROUGHOUT THE PROJECT AREA AT SUFFICIENT DETAILS TO SHOW CHANGES IN ELEVATION 6" OR GREATER AND ATLEAST EVERY 50-FT INCLUDING LOCATIONS AND ELEVATIONS OF ALL HIGH AND LOW POINTS.

**XV. WATER DISTRIBUTION STANDARDS**

- A. GENERAL:
  - 1. ALL MATERIALS, INSTALLATION AND TESTING UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI DADE WATER & SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT.
  - 2. WHERE IT IS NECESSARY TO DEFLECT PIPE EITHER HORIZONTALLY OR VERTICALLY, PIPE JOINT OPENINGS SHALL NOT EXCEED 50% OF THAT RECOMMENDED BY THE PIPE MANUFACTURER.
- B. MATERIALS, INSTALLATION AND TESTING:
  - 1. FOLLOW MIAMI-DADE WATER & SEWER DEPARTMENT CONSTRUCTION SPECIFICATIONS FOR DONATION OF WATER MAINS.

**XVI. SANITARY SEWER COLLECTION SYSTEM:**

- A. GENERAL:
  - 1. WHERE APPLICABLE, ALL MATERIALS AND LABOR UNDER THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI-DADE WATER AND SEWER DEPARTMENT AND SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS AVAILABLE AND ON FILE WITH THE DEPARTMENT.
- B. MATERIALS, INSTALLATION AND TESTING:
  - 1. FOLLOW MDWASD SPECIFICATIONS FOR GRAVITY SANITARY SEWER SYSTEMS AND FORCE MAIN CONSTRUCTION; AS APPLICABLE TO THIS PROJECT.

REFER TO CURTIS PARK NEW POOL FACILITY DRAWINGS BY GIL-MCGRAW ARCHITECTS, LLP FOR ADDITIONAL INFORMATION

**SCS ENGINEERS**  
**STEARNS, CONRAD AND SCHMIDT**  
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 7700 N. KENDALL DRIVE, SUITE 900, MIAMI, FL 33156  
 PH. (305) 412-8185 FAX. (305) 412-8105 FL  
 CERTIFICATE OF AUTHORIZATION NO. 00004892

PROFESSIONAL SEAL:

WILLIAM D. HEIKKINEN, P.E.  
FL. REG. No. 78529

PROJECT NUMBER: 09215101.00

PROJECT NAME & ADDRESS:

**CURTIS PARK**  
 NEW POOL FACILITY  
 1901 NW 24 AVENUE  
 MIAMI, FLORIDA

B-35806

CLIENT NAME & ADDRESS:



**CITY OF MIAMI**  
 CAPITAL IMPROVEMENTS AND  
 TRANSPORTATION PROGRAM  
 444 SW 2ND AVENUE  
 MIAMI, FLORIDA 33130

| REV | DESCRIPTION | DATE |
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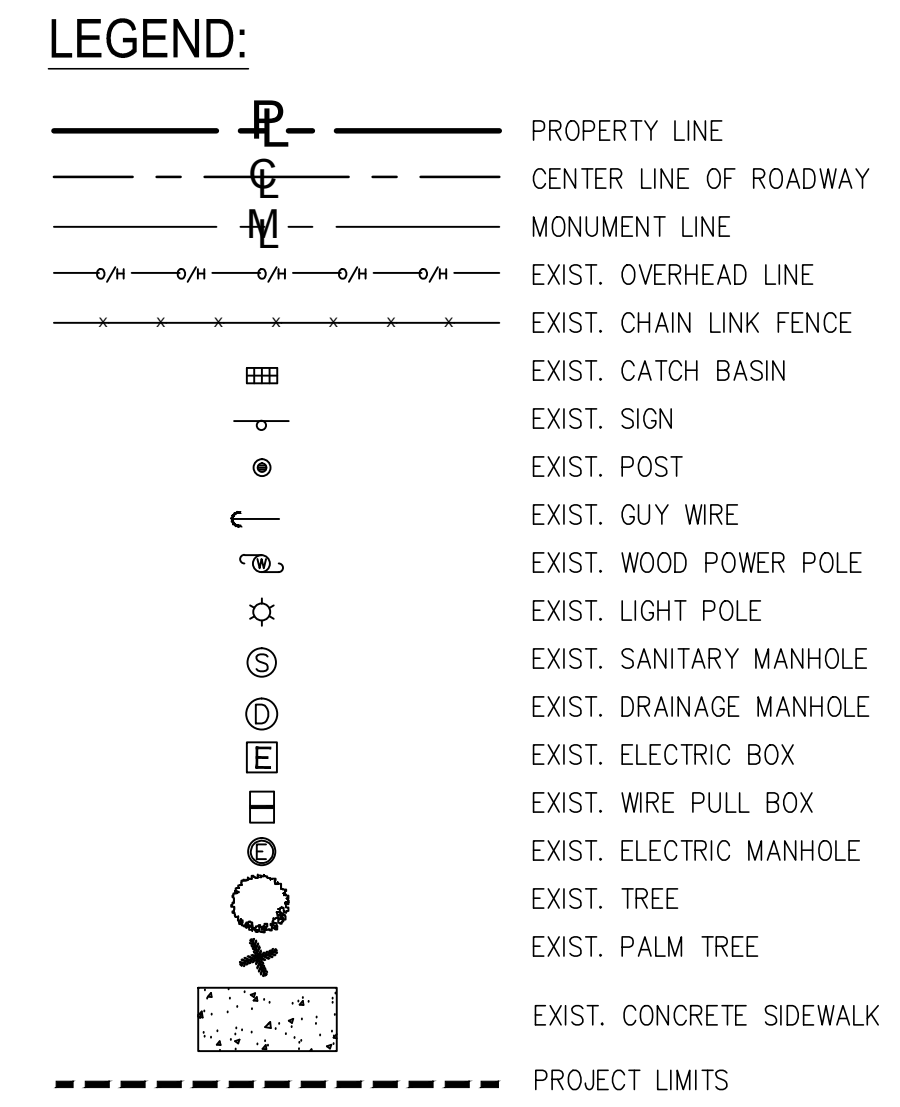
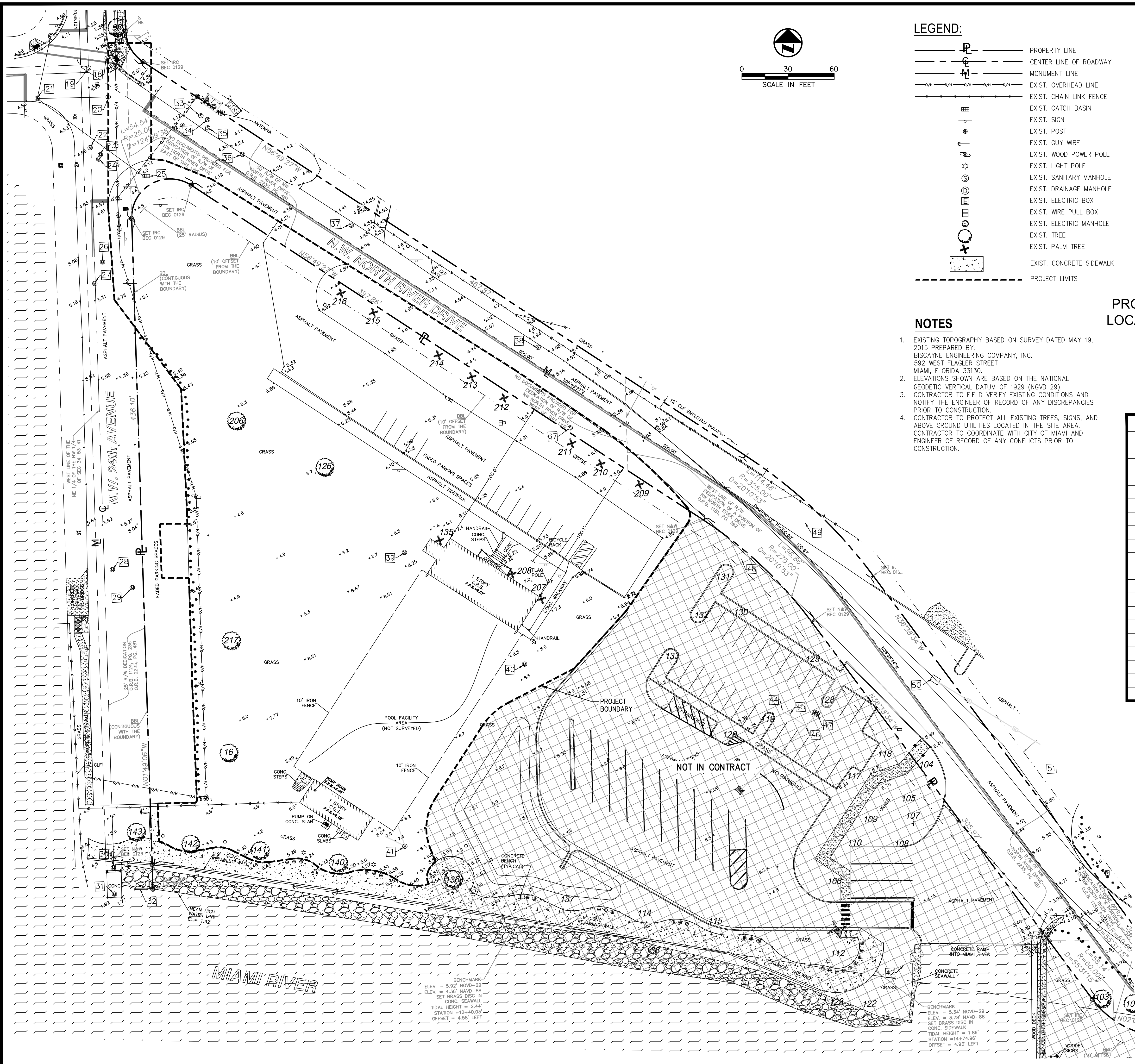
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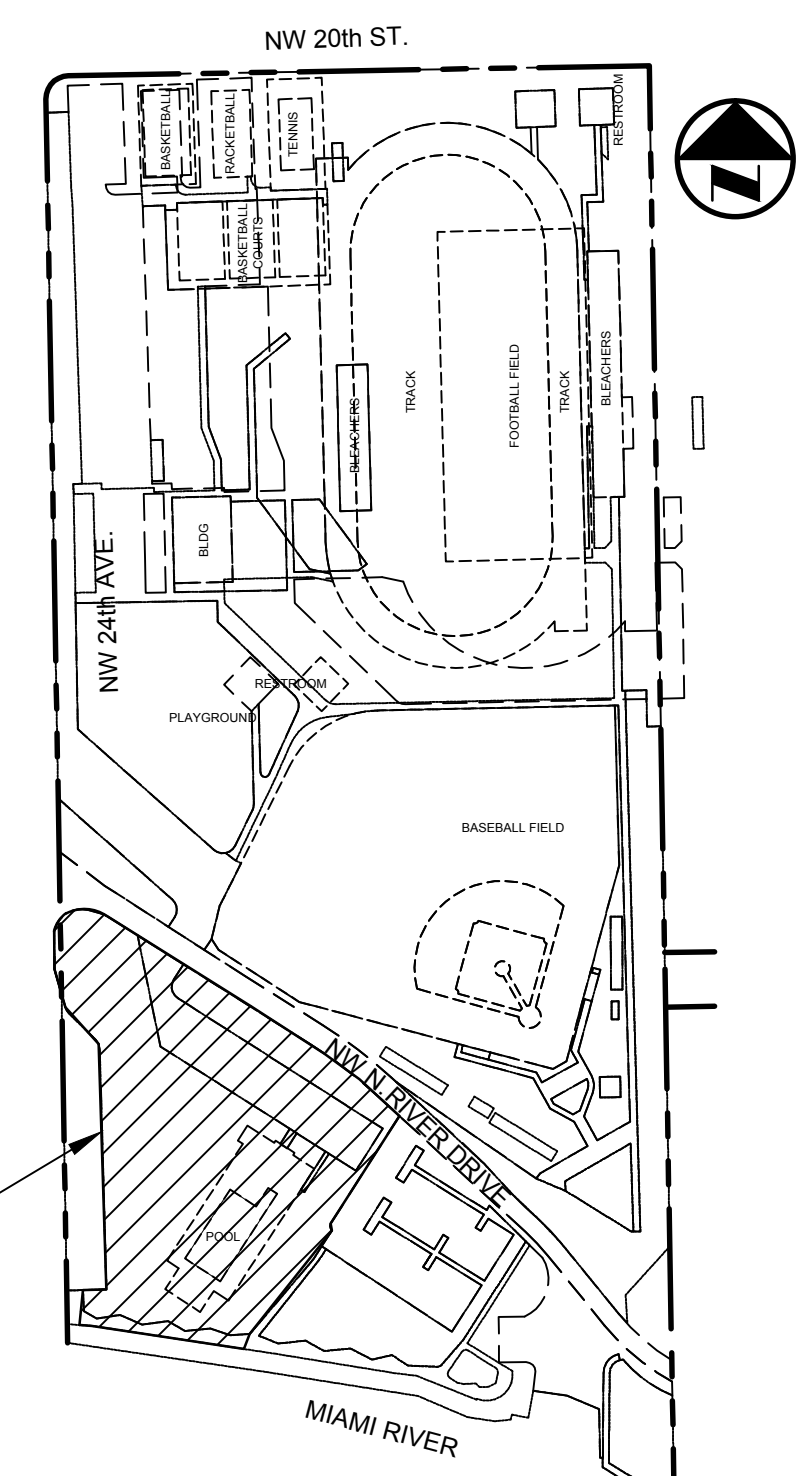
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- ### NOTES
- EXISTING TOPOGRAPHY BASED ON SURVEY DATED MAY 19, 2015 PREPARED BY: BISCAYNE ENGINEERING COMPANY, INC. 592 WEST FLAGLER STREET MIAMI, FLORIDA 33130.
  - ELEVATIONS SHOWN ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
  - CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
  - CONTRACTOR TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF RECORD OF ANY CONFLICTS PRIOR TO CONSTRUCTION.



PROJECT LOCATION

### TREE TABLE

| NUMBER | COMMON NAME  | SCIENTIFIC NAME    |
|--------|--------------|--------------------|
| 16     | FICUS TREE   | FICUS BENJAMINA    |
| 126    | OAK TREE     | QUERCUS VIRGINIA   |
| 135    | COCONUT PALM | COCOS NUCIFERA     |
| 140    | OAK TREE     | QUERCUS VIRGINIA   |
| 141    | OAK TREE     | QUERCUS VIRGINIA   |
| 142    | OAK TREE     | QUERCUS VIRGINIA   |
| 143    | OAK TREE     | QUERCUS VIRGINIA   |
| 206    | BLACK OLIVE  | BUCIDA BUCERAS     |
| 207    | COCONUT PALM | COCOS NUCIFERA     |
| 208    | COCONUT PALM | COCOS NUCIFERA     |
| 209    | COCONUT PALM | COCOS NUCIFERA     |
| 210    | COCONUT PALM | COCOS NUCIFERA     |
| 211    | COCONUT PALM | COCOS NUCIFERA     |
| 212    | COCONUT PALM | COCOS NUCIFERA     |
| 213    | COCONUT PALM | COCOS NUCIFERA     |
| 214    | COCONUT PALM | COCOS NUCIFERA     |
| 215    | COCONUT PALM | COCOS NUCIFERA     |
| 216    | COCONUT PALM | COCOS NUCIFERA     |
| 217    | BANYAN FICUS | FICUS BENGHALENSIS |

### AS-BUILT TABLE

| STRUCTURE NO. | TYPE | RIM EL. | PIPE INFORMATION  | INVERT EL.  |
|---------------|------|---------|---|---|
| 21            | MHS  | 4.82'   | BOS<br>15" CONC.<br>15" CONC.<br>12" CONC.<br>15" CONC. | -0.19'<br>0.12' (N)<br>0.17' (E)<br>0.17' (SE)<br>0.07' (W) |
| 25            | CB   | 4.11'   | 12" CONC.<br>BOS  | 1.61' (NW)<br>0.81'   |
| 38            | MHS  | 4.98'   | 18" METAL<br>6" PVC<br>18" METAL                        | -0.94 (NW)<br>1.04 (SW)<br>-1.05 (NE)                       |
| 39            | MHS  | 7.36'   | BOS<br>6" PVC<br>6" PVC                                 | 2.72<br>2.63 (N)<br>2.92 (NE)                               |
| 40            | MHS  | 8.14'   | BOS<br>36" CMP  | -0.35<br>1.67 (S)   |
| 41            | MHS  | 7.62'   | 36" CMP<br>8" PVC<br>BOS                                | 1.62' (N)<br>4.12' (W)<br>0.32                              |
| 67            | MHS  | 5.28'   | N/A   | N/A   |

\* PIPE SIZES, DIMENSIONS AND TYPES SHOULD BE VERIFIED PRIOR TO CONSTRUCTION DUE TO STANDING WATER, DEBRIS AND OTHER OBSTRUCTIONS WITHIN THE STRUCTURES.

REFER TO CURTIS PARK NEW POOL FACILITY DRAWINGS BY GIL-MCGRAW ARCHITECTS, LLP FOR ADDITIONAL INFORMATION

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EXISTING CONDITIONS

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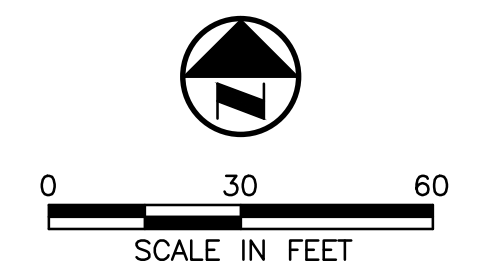
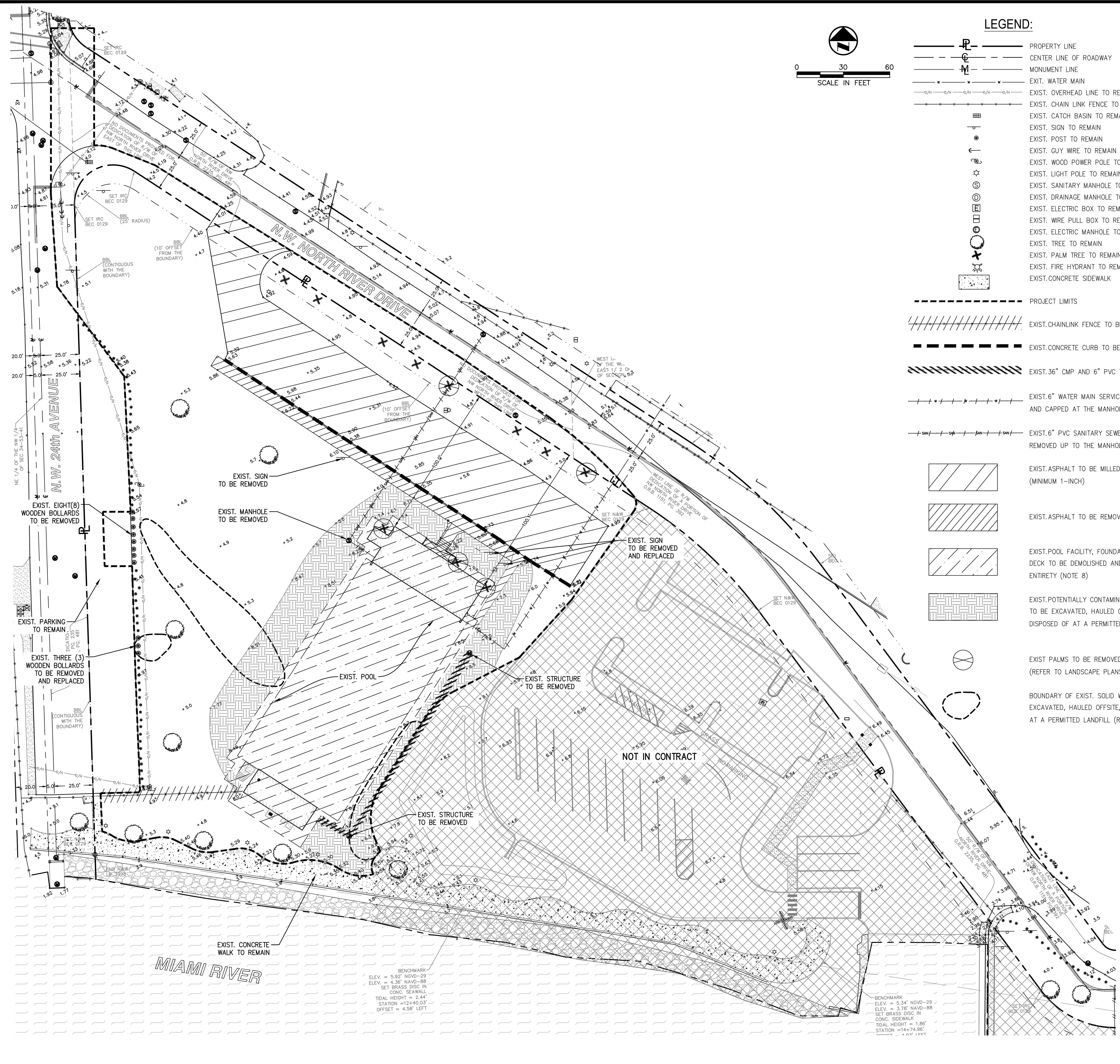
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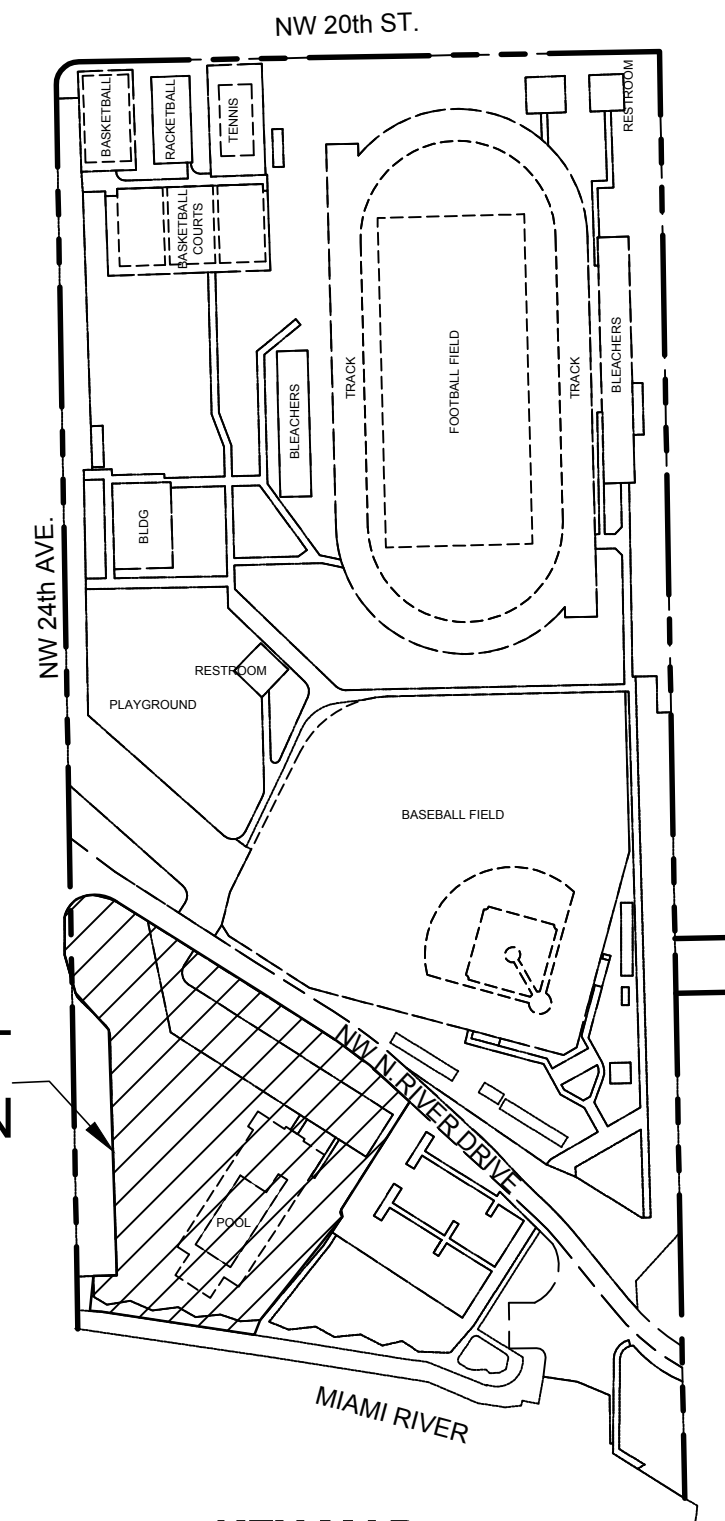
SHEET 4 of 15

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**LEGEND:**

- PROPERTY LINE
- CENTER LINE OF ROADWAY
- MONUMENT LINE
- EXIT WATER MAIN
- EXIST. OVERHEAD LINE TO REMAIN
- EXIST. CHAIN LINK FENCE TO REMAIN
- EXIST. CATCH BASIN TO REMAIN
- EXIST. SIGN TO REMAIN
- EXIST. POST TO REMAIN
- EXIST. GUY WIRE TO REMAIN
- EXIST. WOOD POWER POLE TO REMAIN
- EXIST. LIGHT POLE TO REMAIN
- EXIST. SANITARY MANHOLE TO REMAIN
- EXIST. DRAINAGE MANHOLE TO REMAIN
- EXIST. ELECTRIC BOX TO REMAIN
- EXIST. ELECTRIC MANHOLE TO REMAIN
- EXIST. TREE TO REMAIN
- EXIST. PALM TREE TO REMAIN
- EXIST. FIRE HYDRANT TO REMAIN
- EXIST. CONCRETE SIDEWALK
- PROJECT LIMITS
- EXIST. CHAIN LINK FENCE TO BE REMOVED
- EXIST. CONCRETE CURB TO BE REMOVED
- EXIST. 36" CMP AND 6" PVC TO BE REMOVED
- EXIST. 6" WATER MAIN SERVICE TO BE REMOVED AND CAPPED AT THE MANHOLE
- EXIST. 6" PVC SANITARY SEWER SERVICE TO BE REMOVED UP TO THE MANHOLE
- EXIST. ASPHALT TO BE MILLED AND RESURFACED (MINIMUM 1-INCH)
- EXIST. ASPHALT TO BE REMOVED
- EXIST. POOL FACILITY, FOUNDATION AND CONCRETE DECK TO BE DEMOLISHED AND REMOVED IN ITS ENTIRETY (NOTE 8)
- EXIST. POTENTIALLY CONTAMINATED SOIL MOUNDS TO BE EXCAVATED, HAULED OFFSITE AND DISPOSED OF AT A PERMITTED LANDFILL (NOTE 9)
- EXIST. PALMS TO BE REMOVED OR RELOCATED. (REFER TO LANDSCAPE PLANS FOR DETAILS)
- BOUNDARY OF EXIST. SOLID WASTE TO BE EXCAVATED, HAULED OFFSITE, AND DISPOSED OF AT A PERMITTED LANDFILL (REFER TO C-5.0)



**KEY MAP**  
N.T.S.

**NOTES**

1. EXISTING TOPOGRAPHY BASED ON SURVEY DATED MAY 19, 2015 PREPARED BY: BISCAYNE ENGINEERING COMPANY, INC. 592 WEST FLAGLER STREET MIAMI, FLORIDA 33130.
2. ELEVATIONS SHOWN ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
3. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. CONTRACTOR TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF RECORD OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
5. CONTRACTOR TO REFER TO ELECTRICAL PLANS FOR ANY EXISTING ELECTRICAL COMPONENT DEMOLITION REQUIRED.
6. ALL EXISTING MONITORING WELLS TO BE ABANDONED BY OTHERS PRIOR TO CONSTRUCTION. ANY ACTIVE WELLS FOUND BY CONTRACTOR TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO ANY CONSTRUCTION AROUND THE LOCATION OF THE WELL.
7. EXISTING MOUNDS TO THE EAST AND WEST OF THE EXISTING POOL FACILITY TO BE REMOVED HAULED OFFSITE AND DISPOSED OF AT A PERMITTED LANDFILL. MOUNDS TO BE EXCAVATED TO A DEPTH OF 5.0' NGVD.
8. CONTRACTOR TO REFER TO REPORT OF ASBESTOS SURVEY AND PAINT CONTAINING LEAD SCREENING FOR THE CURTIS PARK POOL FACILITY PREPARED BY MACTEC, DATED JANUARY 26, 2010.
9. EXIST. POTENTIALLY CONTAMINATED SOIL MOUNDS TO BE EXCAVATED TO A MINIMUM DEPTH OF 5-FT NGVD.

REFER TO CURTIS PARK NEW POOL FACILITY DRAWINGS BY GILL-MCGRAW ARCHITECTS, LLP FOR ADDITIONAL INFORMATION

**SCS ENGINEERS**  
STEARNS, CONRAD AND SCHMIDT  
CONSULTING ENGINEERS, INC.  
7700 N. KENDALL DRIVE, SUITE 900, MIAMI, FL 33156  
PH. (305) 412-8165 FAX. (305) 412-8105 FL  
CERTIFICATE OF AUTHORIZATION NO. 00004892

PROFESSIONAL SEAL:

WILLIAM D. HEIKKINEN, P.E.  
FL. REG. NO. 78529

PROJECT NUMBER: 09215101.00

PROJECT NAME & ADDRESS:

**CURTIS PARK**  
NEW POOL FACILITY  
1901 NW 24 AVENUE  
MIAMI, FLORIDA

B-35806

CLIENT NAME & ADDRESS:



**CITY OF MIAMI**  
CAPITAL IMPROVEMENTS AND  
TRANSPORTATION PROGRAM  
444 SW 2ND AVENUE  
MIAMI, FLORIDA 33130

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FILE NAME: SEE PLOT STAMP

DRAWN BY: JDR

CHECKED BY: WDH

DATE: AUGUST 2016

DRAWING TITLE:

**DEMOLITION PLAN**

DRAWING NUMBER:

**C-3.0**

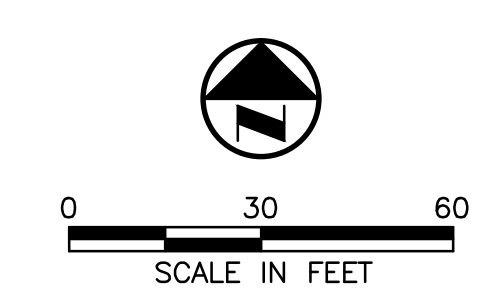
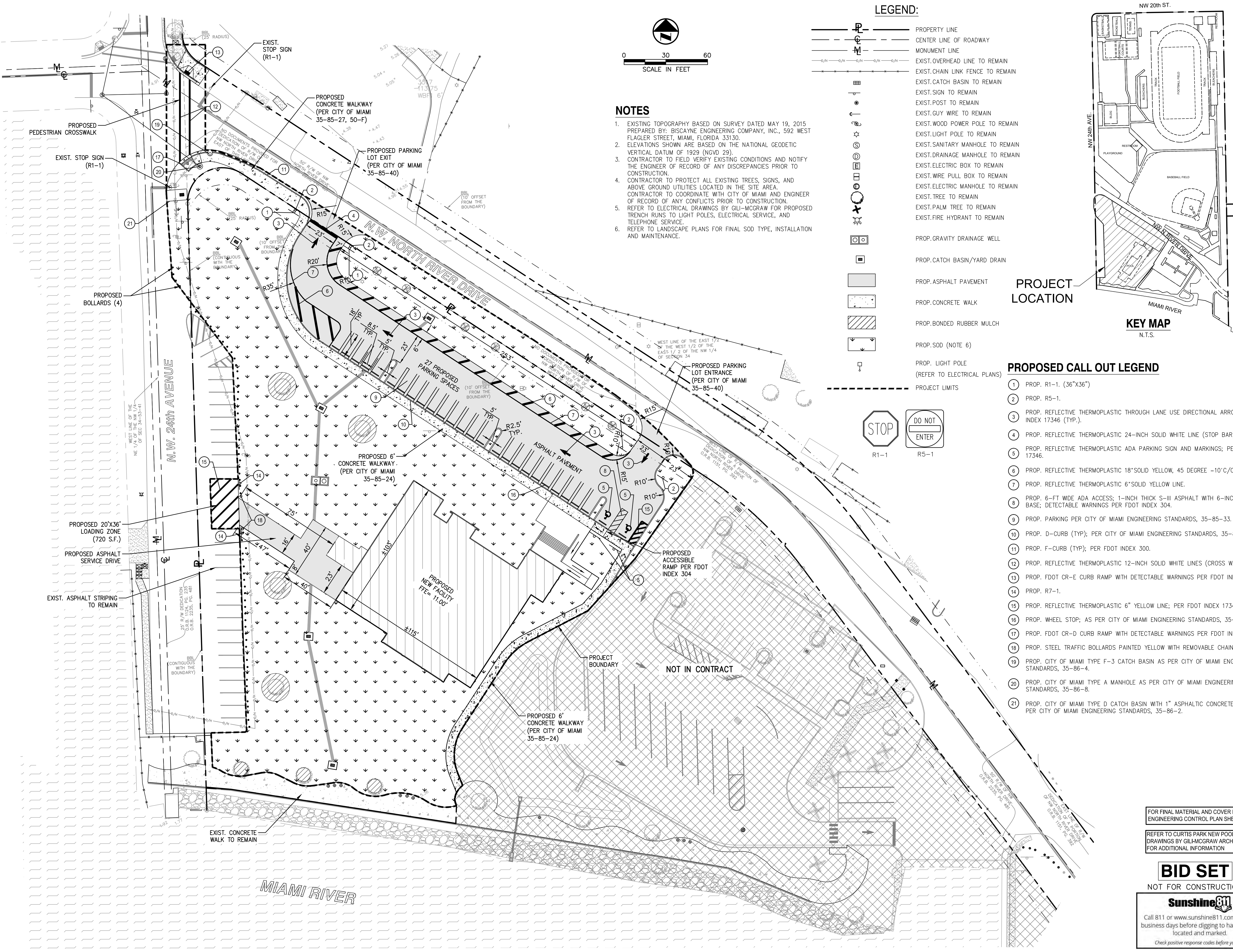
SHEET 5 of 15

**BID SET**  
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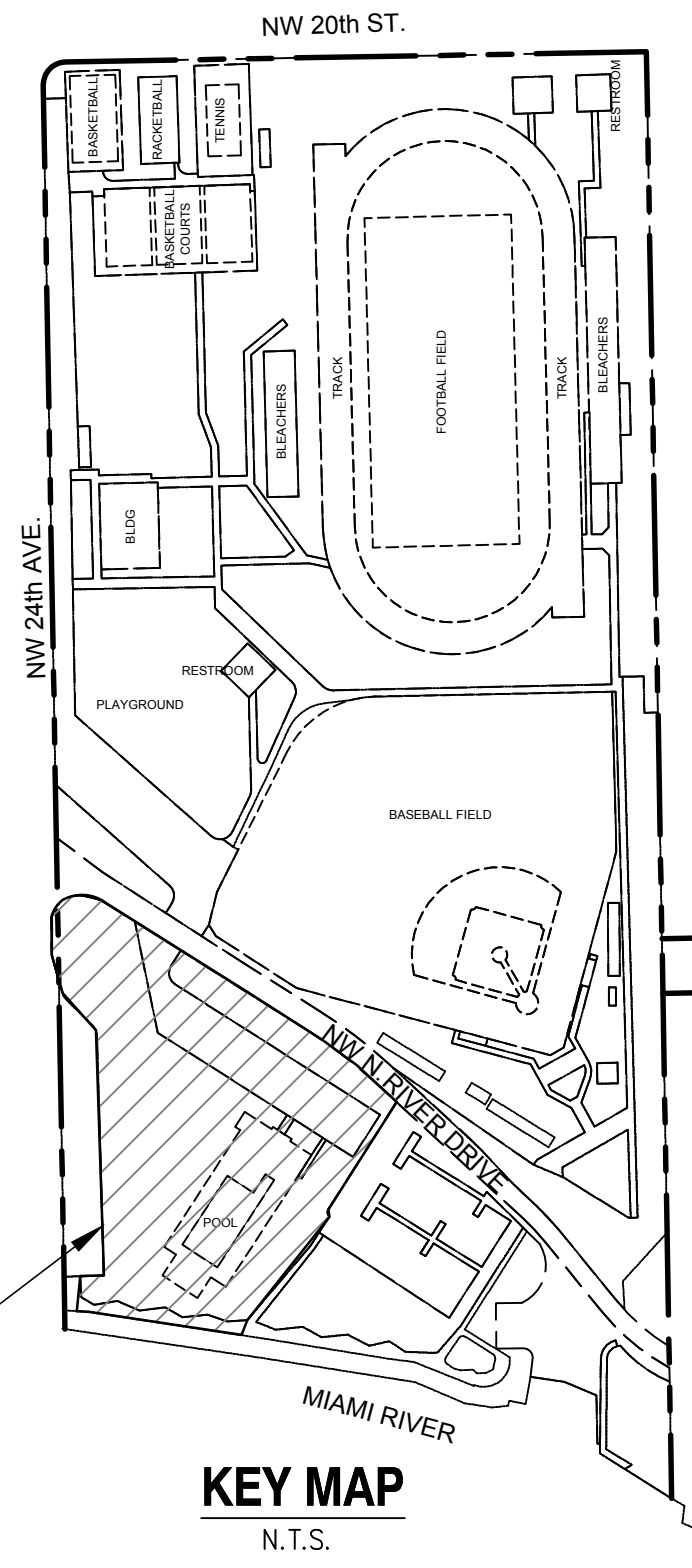
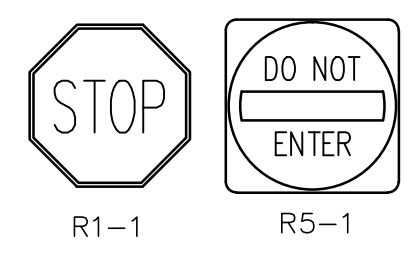
Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.  
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\\MIAMI-ES01\Miami\ESMASTER\Curtis Park Drawings\C-4.0 SITE PLAN.dwg Jul 29, 2016 2:36pm Layout Name: C-4.0 By: 4060jpd



- NOTES**
- EXISTING TOPOGRAPHY BASED ON SURVEY DATED MAY 19, 2015 PREPARED BY: BISCAINE ENGINEERING COMPANY, INC., 592 WEST FLAGLER STREET, MIAMI, FLORIDA 33130.
  - ELEVATIONS SHOWN ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).
  - CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
  - CONTRACTOR TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF RECORD OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
  - REFER TO ELECTRICAL DRAWINGS BY GILI-MCGRAW FOR PROPOSED TRENCH RUNS TO LIGHT POLES, ELECTRICAL SERVICE, AND TELEPHONE SERVICE.
  - REFER TO LANDSCAPE PLANS FOR FINAL SOD TYPE, INSTALLATION AND MAINTENANCE.

- LEGEND:**
- PROPERTY LINE
  - CENTER LINE OF ROADWAY
  - MONUMENT LINE
  - EXIST. OVERHEAD LINE TO REMAIN
  - EXIST. CHAIN LINK FENCE TO REMAIN
  - EXIST. CATCH BASIN TO REMAIN
  - EXIST. SIGN TO REMAIN
  - EXIST. POST TO REMAIN
  - EXIST. GUY WIRE TO REMAIN
  - EXIST. WOOD POWER POLE TO REMAIN
  - EXIST. LIGHT POLE TO REMAIN
  - EXIST. SANITARY MANHOLE TO REMAIN
  - EXIST. DRAINAGE MANHOLE TO REMAIN
  - EXIST. ELECTRIC BOX TO REMAIN
  - EXIST. WIRE PULL BOX TO REMAIN
  - EXIST. ELECTRIC MANHOLE TO REMAIN
  - EXIST. TREE TO REMAIN
  - EXIST. PALM TREE TO REMAIN
  - EXIST. FIRE HYDRANT TO REMAIN
  - PROP. GRAVITY DRAINAGE WELL
  - PROP. CATCH BASIN/YARD DRAIN
  - PROP. ASPHALT PAVEMENT
  - PROP. CONCRETE WALK
  - PROP. BONDED RUBBER MULCH
  - PROP. SOD (NOTE 6)
  - PROP. LIGHT POLE (REFER TO ELECTRICAL PLANS)
  - PROJECT LIMITS



**PROPOSED CALL OUT LEGEND**

- PROP. R1-1. (36"x36")
- PROP. R5-1.
- PROP. REFLECTIVE THERMOPLASTIC THROUGH LANE USE DIRECTIONAL ARROW PER FDOT INDEX 17346 (TYP.).
- PROP. REFLECTIVE THERMOPLASTIC 24-INCH SOLID WHITE LINE (STOP BAR).
- PROP. REFLECTIVE THERMOPLASTIC ADA PARKING SIGN AND MARKINGS; PER FDOT INDEX 17346.
- PROP. REFLECTIVE THERMOPLASTIC 18" SOLID YELLOW, 45 DEGREE -10° C/C SPACING.
- PROP. REFLECTIVE THERMOPLASTIC 6" SOLID YELLOW LINE.
- PROP. 6-FT WIDE ADA ACCESS; 1-INCH THICK S-III ASPHALT WITH 6-INCH LIMEROCK BASE; DETECTABLE WARNINGS PER FDOT INDEX 304.
- PROP. PARKING PER CITY OF MIAMI ENGINEERING STANDARDS, 35-85-33.
- PROP. D-CURB (TYP); PER CITY OF MIAMI ENGINEERING STANDARDS, 35-85-33.
- PROP. F-CURB (TYP); PER FDOT INDEX 300.
- PROP. REFLECTIVE THERMOPLASTIC 12-INCH SOLID WHITE LINES (CROSS WALK).
- PROP. FDOT CR-E CURB RAMP WITH DETECTABLE WARNINGS PER FDOT INDEX 304.
- PROP. R7-1.
- PROP. REFLECTIVE THERMOPLASTIC 6" YELLOW LINE; PER FDOT INDEX 17346.
- PROP. WHEEL STOP; AS PER CITY OF MIAMI ENGINEERING STANDARDS, 35-85-41.
- PROP. FDOT CR-D CURB RAMP WITH DETECTABLE WARNINGS PER FDOT INDEX 304.
- PROP. STEEL TRAFFIC BOLLARDS PAINTED YELLOW WITH REMOVABLE CHAIN.
- PROP. CITY OF MIAMI TYPE F-3 CATCH BASIN AS PER CITY OF MIAMI ENGINEERING STANDARDS, 35-86-4.
- PROP. CITY OF MIAMI TYPE A MANHOLE AS PER CITY OF MIAMI ENGINEERING STANDARDS, 35-86-8.
- PROP. CITY OF MIAMI TYPE D CATCH BASIN WITH 1" ASPHALTIC CONCRETE APRON AS PER CITY OF MIAMI ENGINEERING STANDARDS, 35-86-2.

FOR FINAL MATERIAL AND COVER REFER TO ENGINEERING CONTROL PLAN SHEET C-5.0

REFER TO CURTIS PARK NEW POOL FACILITY DRAWINGS BY GILI-MCGRAW ARCHITECTS, LLP FOR ADDITIONAL INFORMATION

**BID SET**

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Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.  
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**SCS ENGINEERS**  
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7700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156  
PH. (305) 412-8185 FAX. (305) 412-8105 FL  
CERTIFICATE OF AUTHORIZATION NO. 00004892

PROFESSIONAL SEAL:

WILLIAM D. HEIKINEN, P.E.  
FL. REG. No. 78529

PROJECT NUMBER: 09215101.00

PROJECT NAME & ADDRESS:

**CURTIS PARK**  
NEW POOL FACILITY  
1901 NW 24 AVENUE  
MIAMI, FLORIDA  
B-35806

CLIENT NAME & ADDRESS:



**CITY OF MIAMI**  
CAPITAL IMPROVEMENTS AND  
TRANSPORTATION PROGRAM  
444 SW 2ND AVENUE  
MIAMI, FLORIDA 33130

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CHECKED BY: WDH

DATE: AUGUST 2016

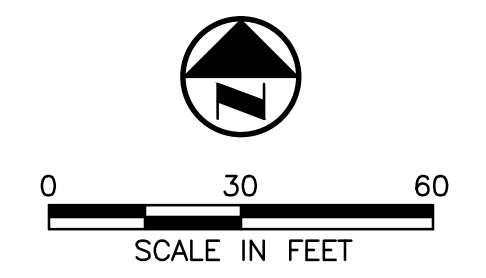
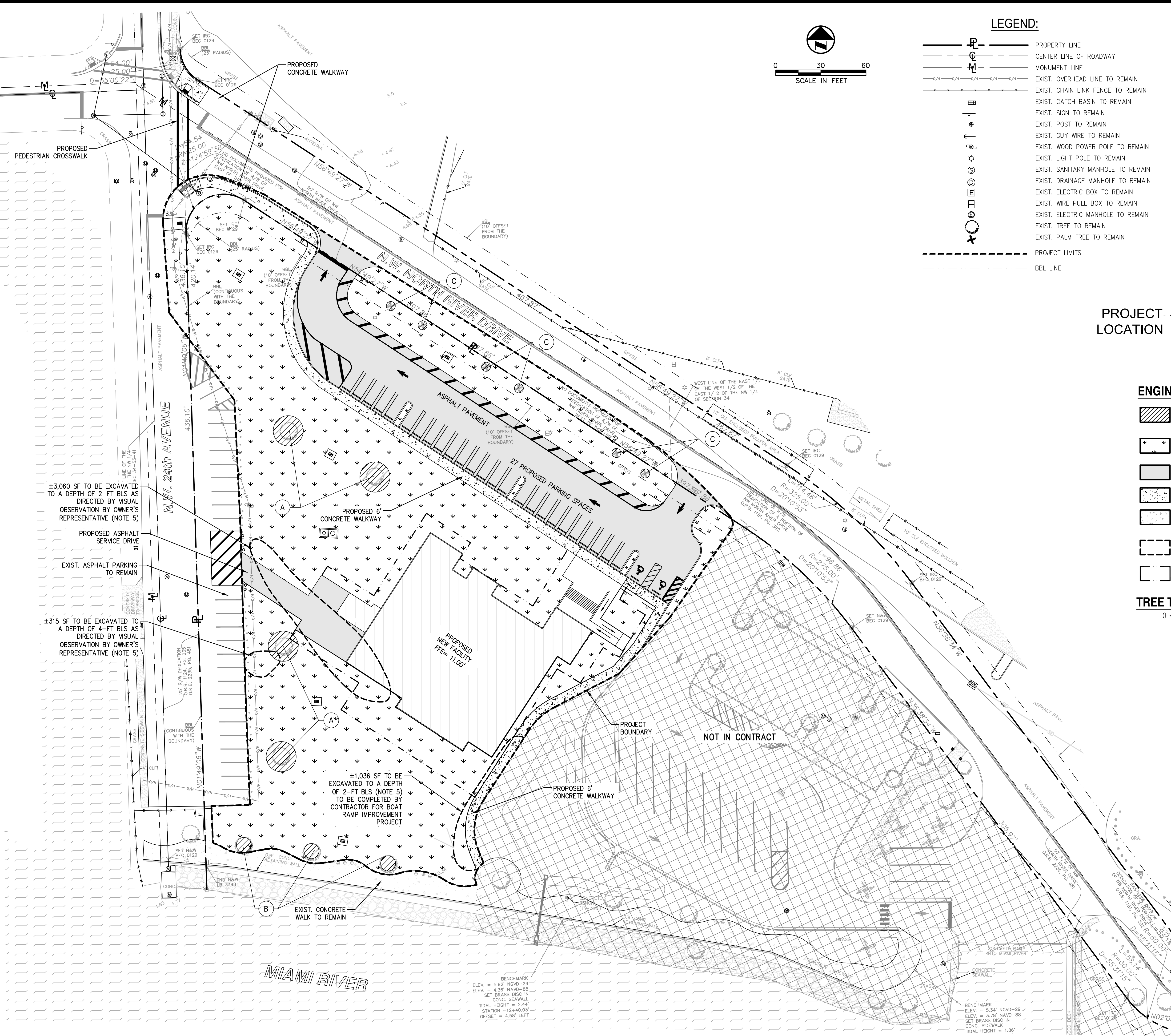
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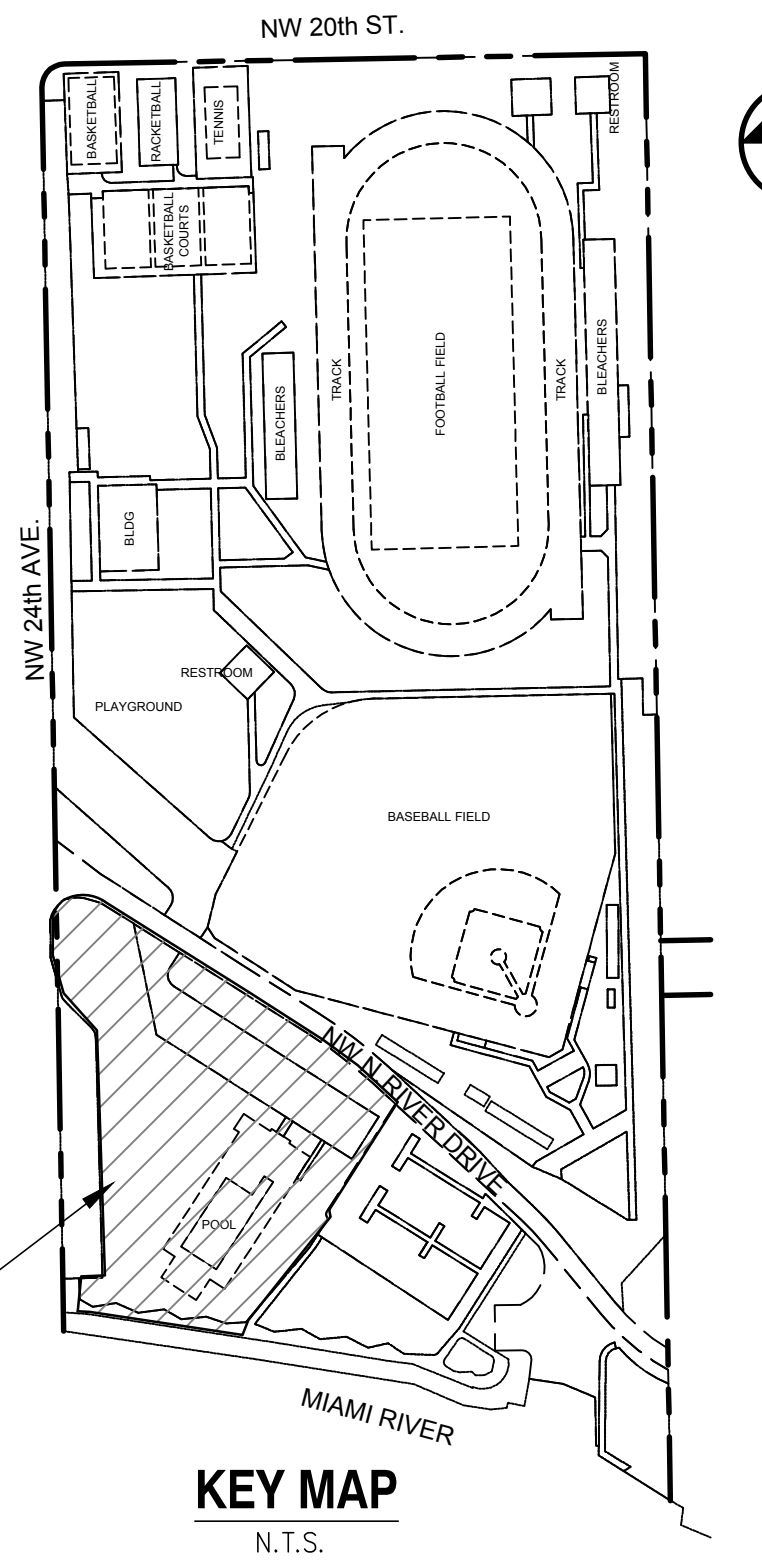
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- LEGEND:**
- PROPERTY LINE
  - CENTER LINE OF ROADWAY
  - MONUMENT LINE
  - EXIST. OVERHEAD LINE TO REMAIN
  - EXIST. CHAIN LINK FENCE TO REMAIN
  - EXIST. CATCH BASIN TO REMAIN
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  - EXIST. ELECTRIC BOX TO REMAIN
  - EXIST. WIRE PULL BOX TO REMAIN
  - EXIST. ELECTRIC MANHOLE TO REMAIN
  - EXIST. TREE TO REMAIN
  - EXIST. PALM TREE TO REMAIN
  - PROJECT LIMITS
  - BBL LINE



- ENGINEERING CONTROL**
- PROPOSED TREE TREATMENT AREA, 12" CLEAN FILL MINIMUM, 2.5" BONDED RUBBER MULCH
  - PROPOSED FINAL SURFACE GEOTEXTILE, 12" CLEAN FILL MINIMUM AND SOD (NOTE 8)
  - PROPOSED ASPHALT PAVEMENT
  - PROPOSED CONCRETE
  - EXISTING CONCRETE TO REMAIN
  - BOUNDARY OF EXIST. SOLID WASTE TO BE EXCAVATED TO SPECIFIED DEPTH, HAULED OFFSITE AND DISPOSED OF AT A PERMITTED LANDFILL
  - PROPOSED PLANTING BOUNDARY MIN. 5'-FT CLEAN FILL AND SOD (NOTE 9)

- TREE TREATMENT MIN. RADIUS**  
(FROM CENTER OF TREE/PALM)
- A = 10'**
  - B = 5'**
  - C = 3'**

- NOTES**
1. EXISTING TOPOGRAPHY BASED ON SURVEY DATED MAY 19, 2015 PREPARED BY: BISCAYNE ENGINEERING COMPANY, INC. 592 WEST FLAGLER STREET, MIAMI, FLORIDA 33130.
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  4. CONTRACTOR TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF RECORD OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
  5. EXISTING SOLID WASTE SHALL BE EXCAVATED, HAULED OFFSITE AND DISPOSED OF AT A PERMITTED LANDFILL.
  6. DISPOSAL MANIFESTS FOR THE CONTAMINATED SOIL AND TICKETS FOR THE IMPORTED CLEAN FILL SHALL BE SUBMITTED TO DERM AS PART OF THE CERTIFICATION OF COMPLETION.
  7. CLEAN FILL SHALL BE SOURCED FROM A NATIVE ROCK MINING QUARRY.
  8. REFER TO LANDSCAPE PLANS FOR FINAL SURFACE TREATMENT, INSTALLATION AND MAINTENANCE.
  9. REFER TO LANDSCAPE PLANS FOR PLANTING DETAILS.

REFER TO CURTIS PARK NEW POOL FACILITY DRAWINGS BY GILMCGRAW ARCHITECTS, LLP FOR ADDITIONAL INFORMATION

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FL. REG. NO. 78529

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B-35806

CLIENT NAME & ADDRESS:



CITY OF MIAMI  
CAPITAL IMPROVEMENTS AND  
TRANSPORTATION PROGRAM  
444 SW 2ND AVENUE  
MIAMI, FLORIDA 33130

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DATE: AUGUST 2016

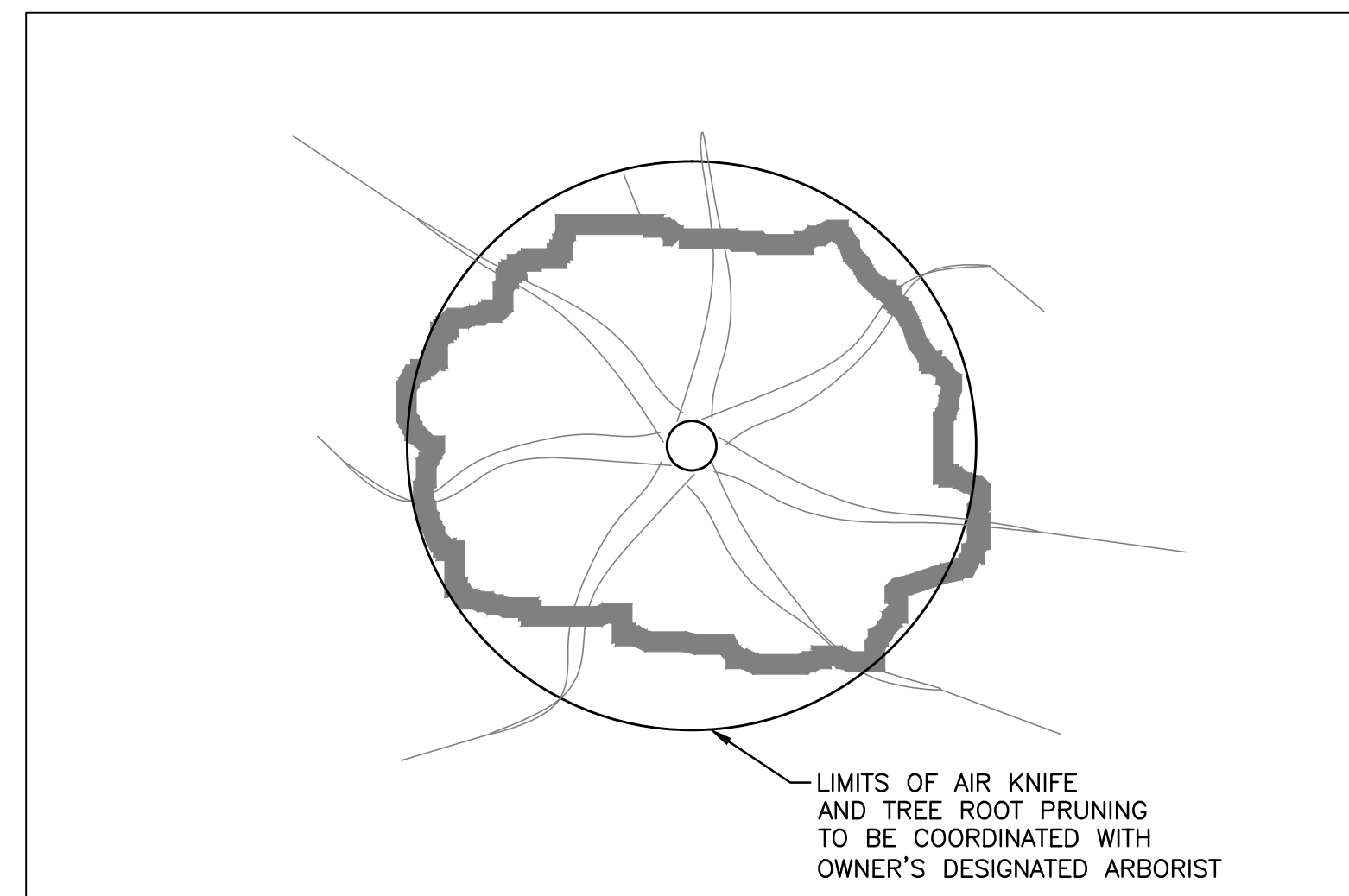
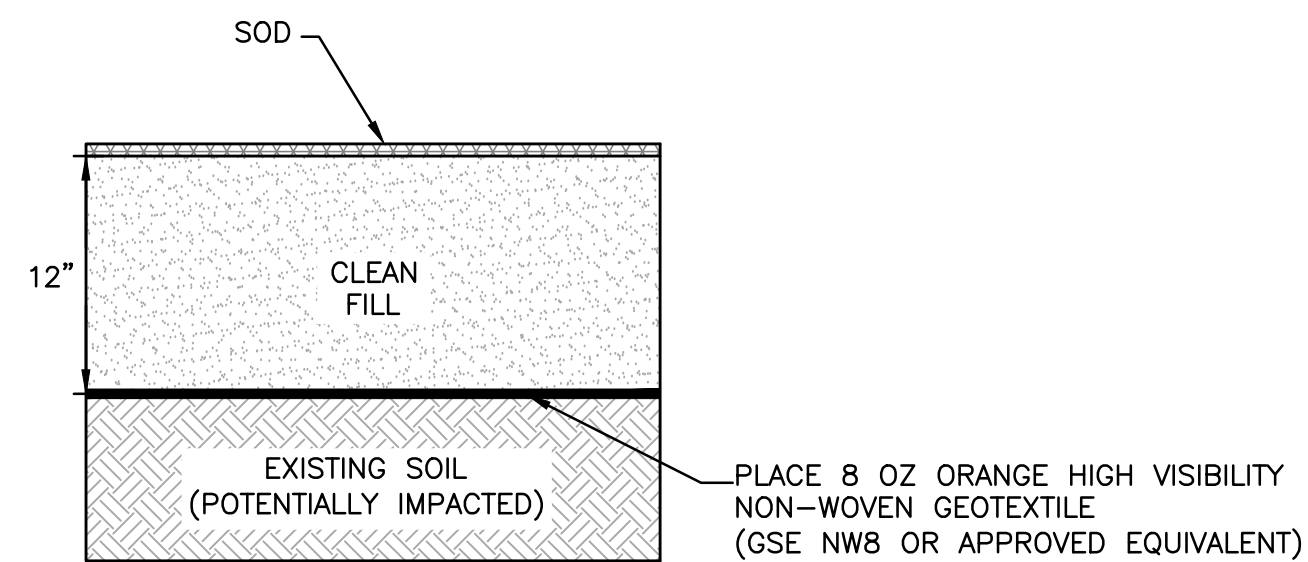
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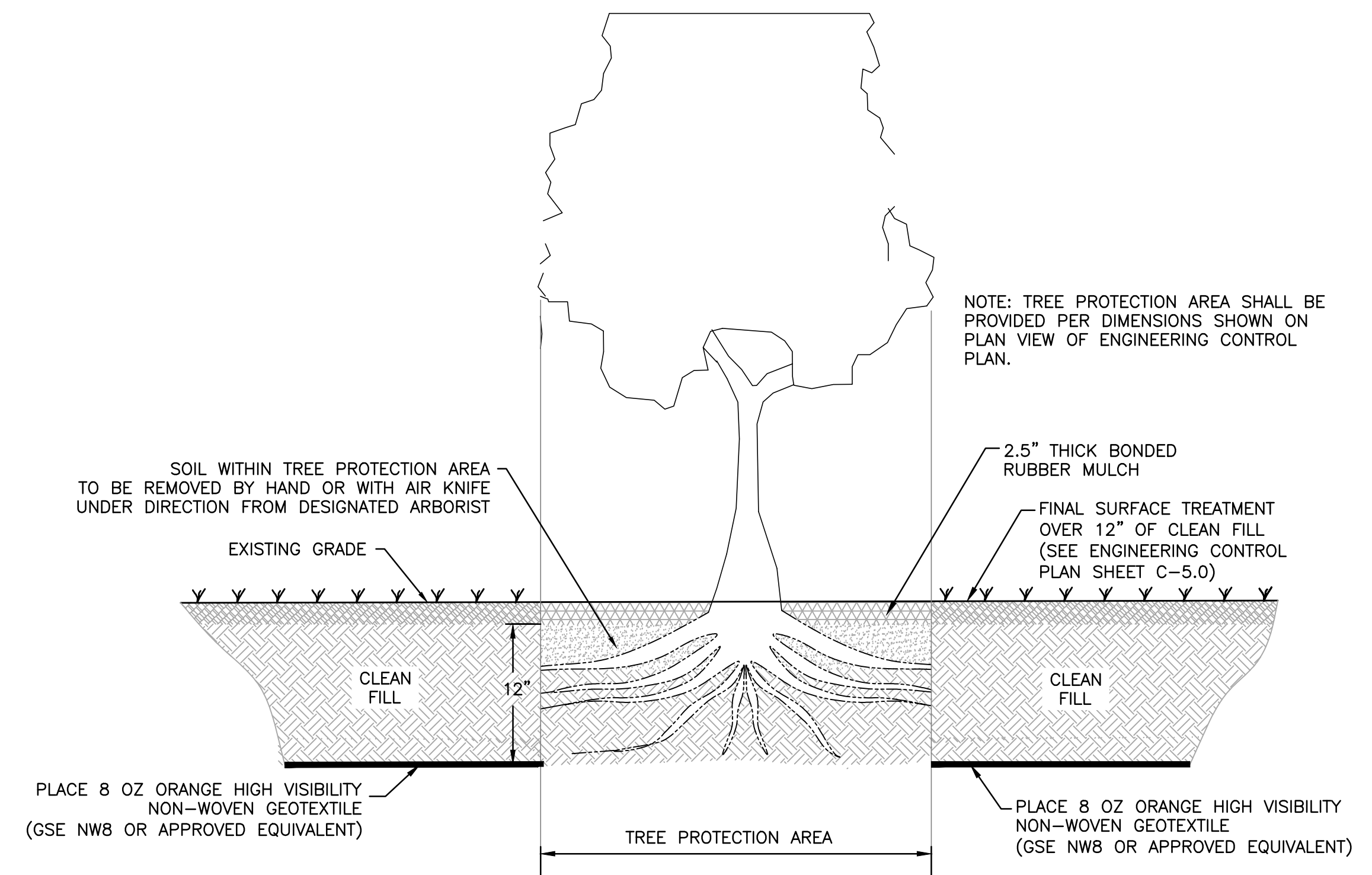
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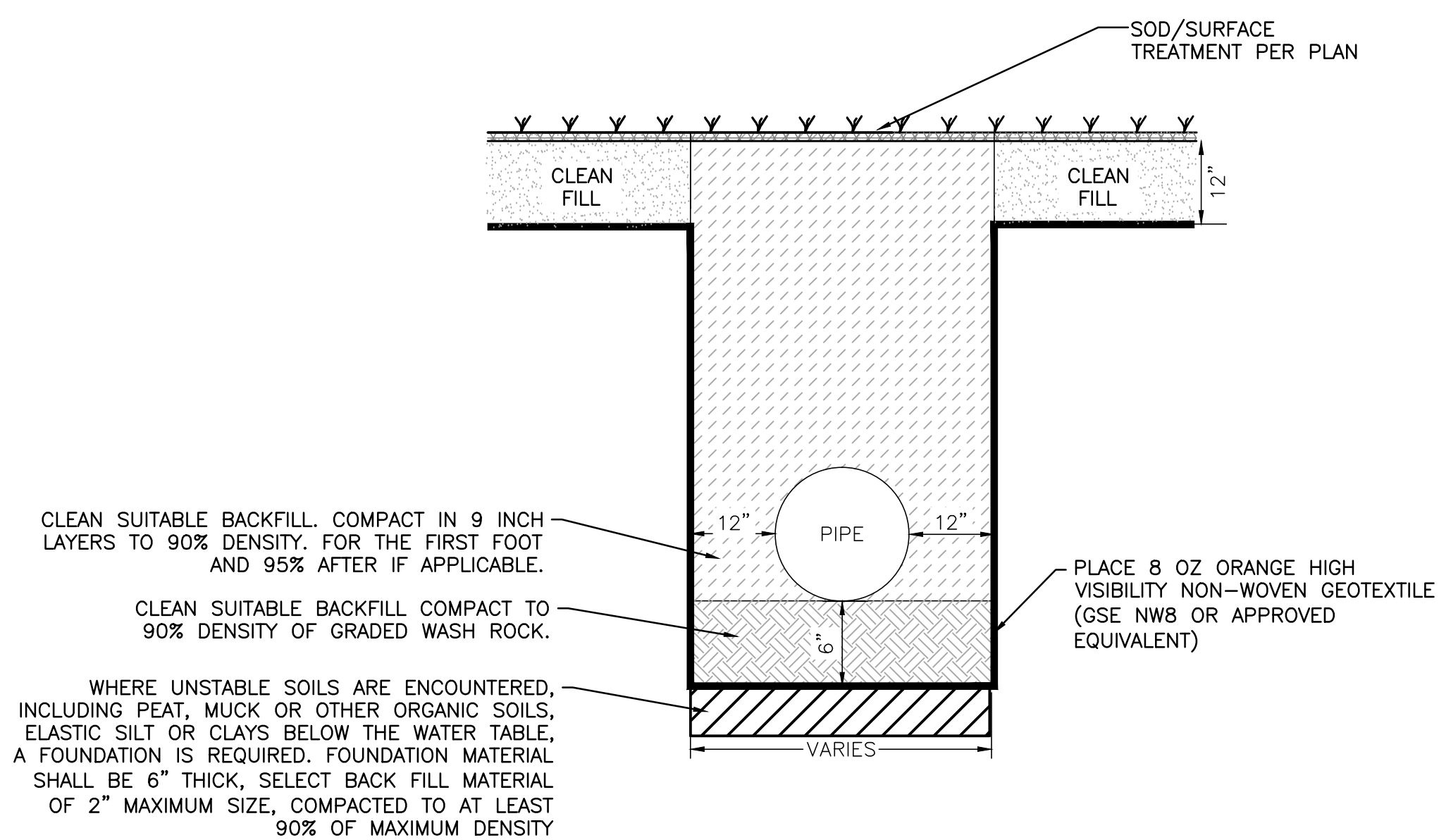


PLAN VIEW



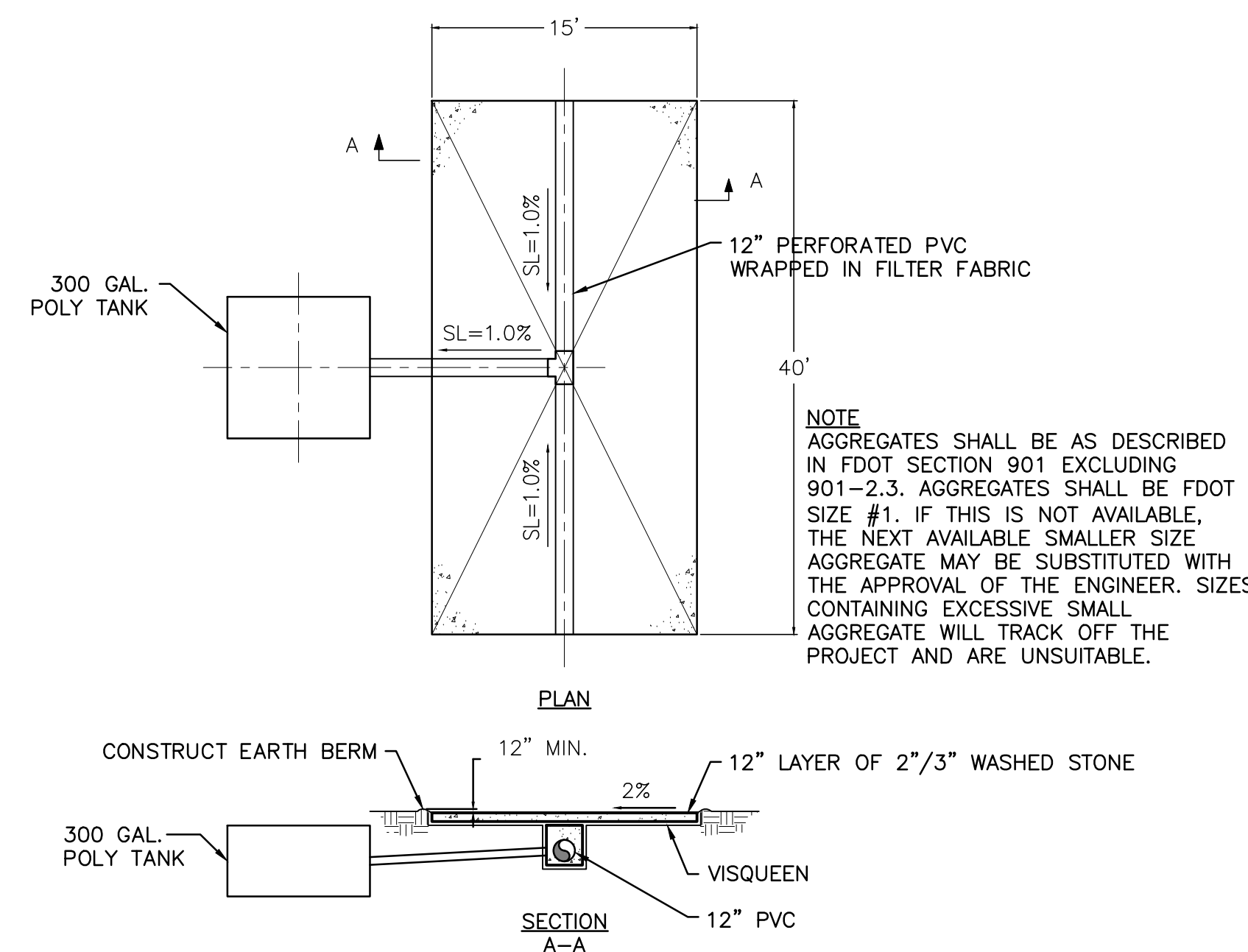
TREE TREATMENT DETAIL

N.T.S.



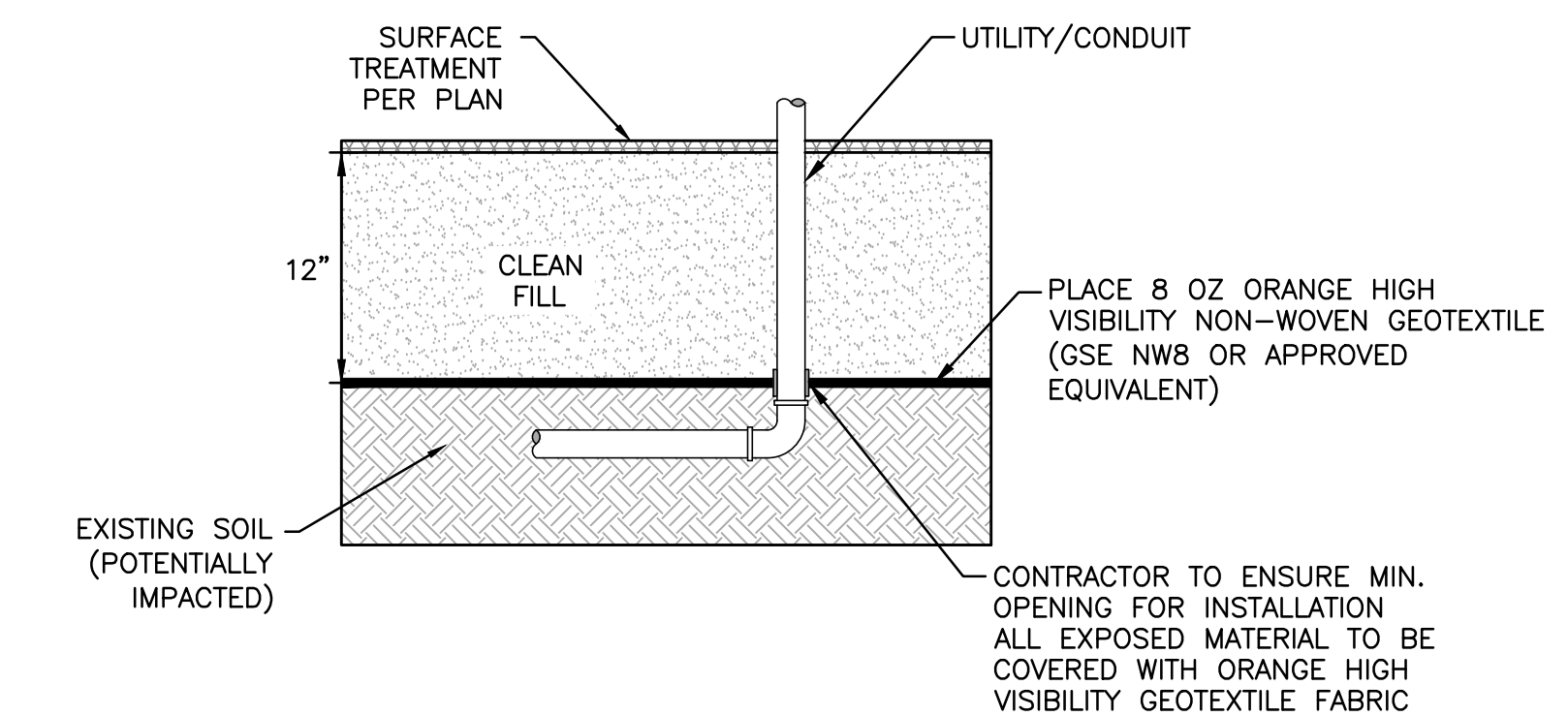
UTILITY TRENCH RESTORATION FOR DEPTHS OF 4 FEET OR LESS

N.T.S.



DECONTAMINATION WASH-WATER CONTAINER SYSTEM DETAIL

N.T.S.



FOR EXISTING UTILITIES W/ >12" COVER

N.T.S.

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MIAMI, FLORIDA 33130

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ENGINEERING CONTROL  
PLAN DETAILS

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SHEET 8 of 15

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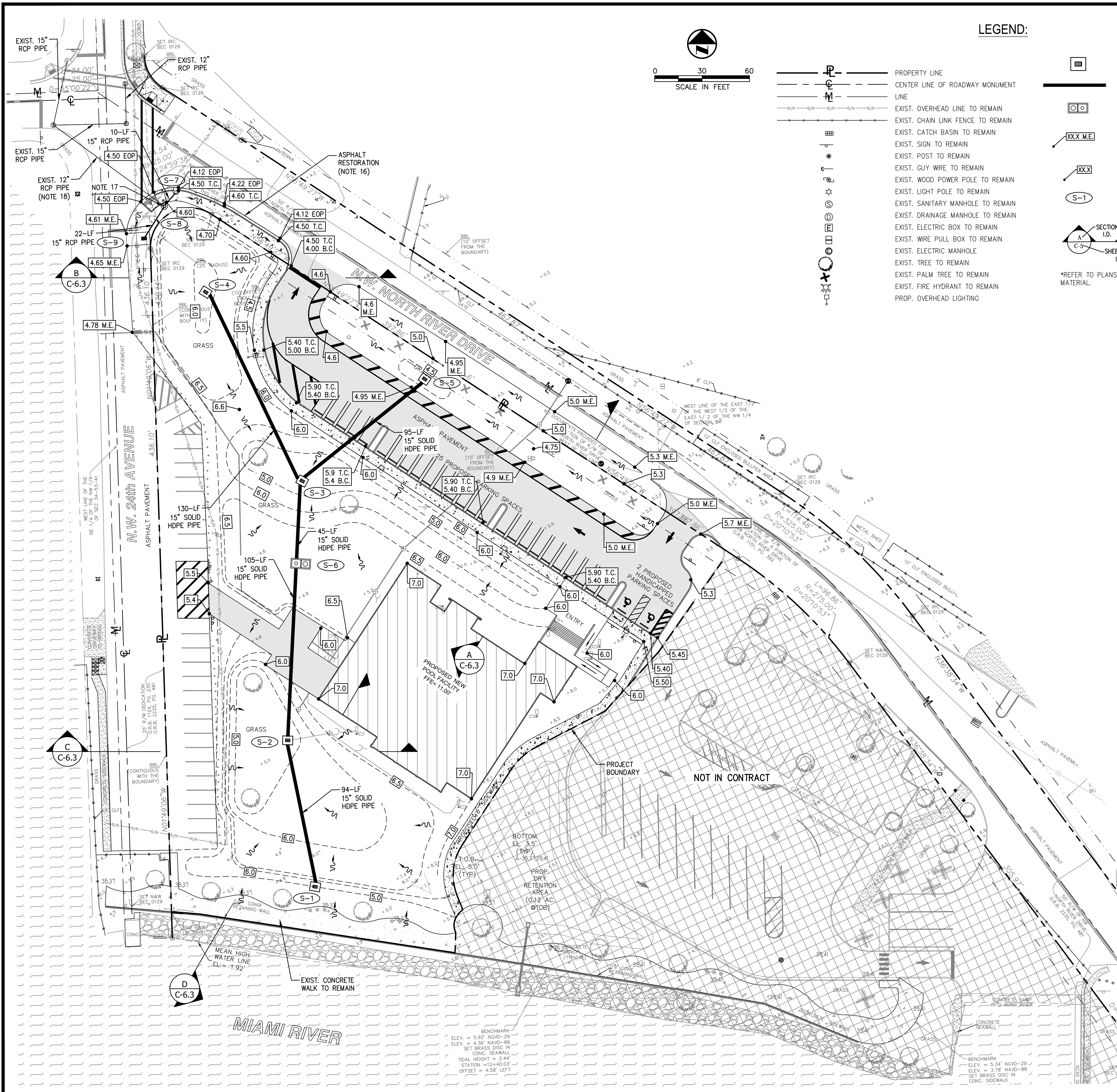
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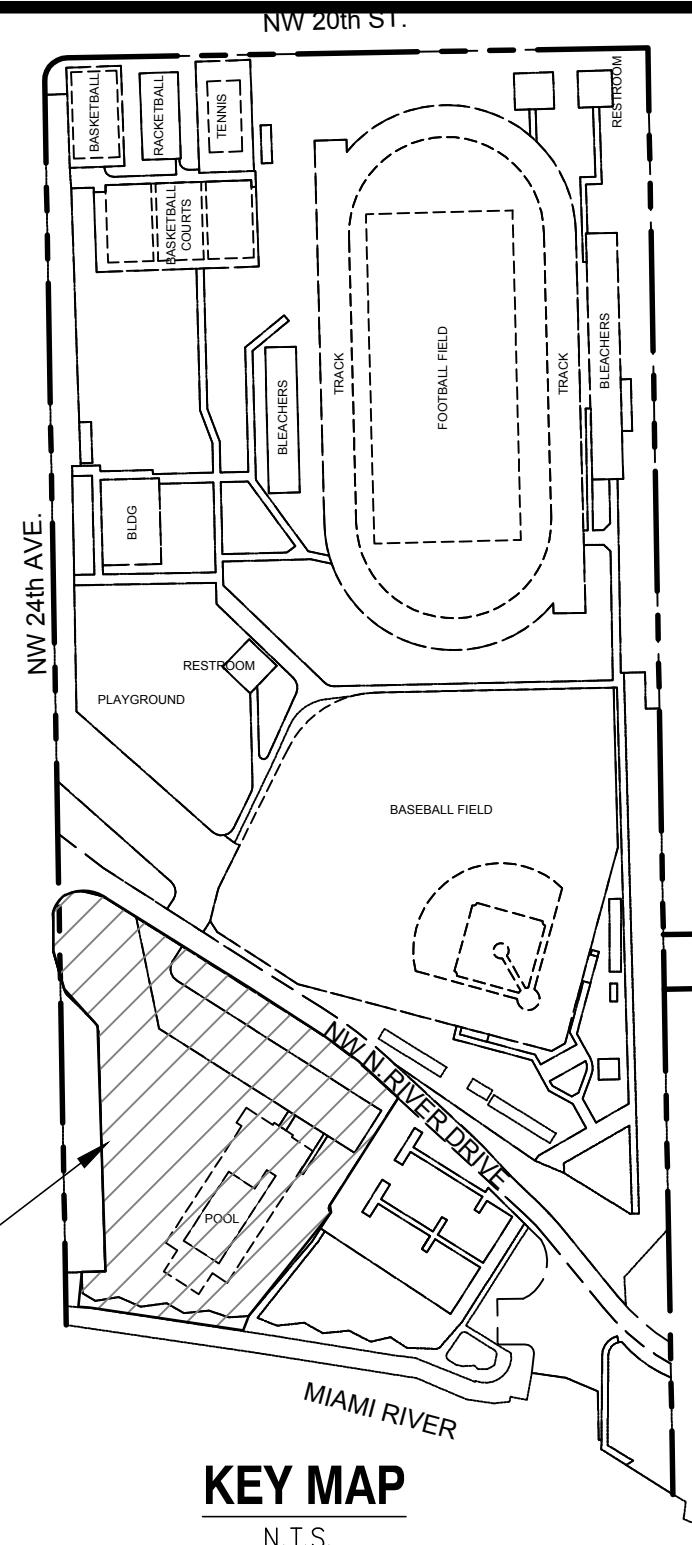


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**LEGEND:**

- PROPERTY LINE
- CENTER LINE OF ROADWAY MONUMENT LINE
- EXIST. OVERHEAD LINE TO REMAIN
- EXIST. CHAIN LINK FENCE TO REMAIN
- EXIST. CATCH BASIN TO REMAIN
- EXIST. SIGN TO REMAIN
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- EXIST. DRAINAGE MANHOLE TO REMAIN
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- EXIST. WIRE PULL BOX TO REMAIN
- EXIST. ELECTRIC MANHOLE
- EXIST. TREE TO REMAIN
- EXIST. PALM TREE TO REMAIN
- EXIST. FIRE HYDRANT TO REMAIN
- PROP. OVERHEAD LIGHTING
- PROP. INLET
- PROP. STORMWATER PIPE\*
- GRAVITY WELL BOX
- MATCH EXISTING ELEVATION, FT NGVD
- PROPOSED ELEVATION, FT NGVD
- PROPOSED DRAINAGE STRUCTURE DESIGNATION



**PROJECT LOCATION**

**NOTES**

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2. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
3. ALL PROPOSED SWALE SHALL BE GRADED TOWARDS THE EXISTING OR PROPOSED DRAINAGE INLETS.
4. CONTRACTOR IS TO PROTECT ALL EXISTING TREES, SIGNS, AND ABOVE GROUND UTILITIES LOCATED IN THE SITE AREA. CONTRACTOR IS TO COORDINATE WITH CITY OF MIAMI AND ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
5. ALL PROPOSED CATCH BASIN RIM ELEVATIONS SHALL BE SET TO A MINIMUM OF FOUR (4) INCHES LOWER THAN THE LOWEST EDGE OF PAVEMENT, SIDEWALK, OR DRIVEWAY (WHICHEVER IS LOWER) LOCATED ADJACENT TO INLET.
6. ALL DISTURBED SWALE AREAS SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
7. ALL INLETS ARE TO RECEIVE 3,000 PSI CONCRETE APRONS REINFORCED WITH FIBER MESH. NEW APRONS ARE TO EXTEND TO THE EDGE OF PAVEMENT.
8. PAVEMENT AND DRIVEWAY RESTORATION ARE TO MATCH EXISTING GRADE UNLESS OTHERWISE NOTED.
9. NEW LOCATIONS FOR THE IDENTIFIED EXISTING TREES TO BE RELOCATED SHALL BE COORDINATE BY THE CONTRACTOR WITH THE CITY OF MIAMI PRIOR TO ANY OF THE EXISTING TREES BEING REMOVED.
10. ANY EXISTING UTILITIES DAMAGED BY THE ON-GOING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR TO EXISTING CONDITION OR BETTER AT THE EXPENSE OF THE CONTRACTOR.
11. CONTRACTOR TO PROVIDE DETAILED AS-BUILTS SURVEYS THAT CLEARLY DEFINE AREAS OF WORK COMPLETED UNDER THIS CONTRACT INCLUDING BUT NOT LIMITED TO ALL RIM ELEVATIONS (EXISTING AND PROPOSED STRUCTURES), ALL INVERTS, BOTTOM OF STRUCTURE, SUFFICIENT SWALE ELEVATIONS TO DEMONSTRATE THAT SWALES DRAIN TO INLETS, LOCATION OF EXFILTRATION TRENCH, LOCATION OF DRIVEWAY RESTORATION, AND RESTORED ASPHALT PAVEMENT.
12. EXISTING SOLID WASTE SHALL BE EXCAVATED, HAULED OFFSITE AND DISPOSED OF AT A PERMITTED LANDFILL.
13. DISPOSAL MANIFESTS FOR THE CONTAMINATED SOIL AND TICKETS FOR THE IMPORTED CLEAN FILL SHALL BE SUBMITTED TO DERM AS PART OF THE CERTIFICATION OF COMPLETION.
14. RELOCATED AND REGRADED CONTAMINATED SOIL SHALL BE COVERED WITH HIGH VISIBILITY NON-WOVEN GEOTEXTILE AND A MINIMUM 1 FOOT CLEAN SOIL.
15. EXCAVATED MATERIAL SHALL BE RELOCATED ONSITE PER ENGINEERING CONTROL PLAN AND EXCESS MATERIAL SHALL BE DISPOSED OF AT A PERMITTED LANDFILL.
16. CONTRACTOR SHALL RESTORE 3-FT ASPHALT ALONG PROPOSED TYPE F CURB AND GUTTER.
17. EXISTING CATCH BASIN SHALL BE REPLACED WITH CITY OF MIAMI TYPE A MANHOLE.
18. EXISTING 12" RCP STORMWATER PIPE TO BE CONNECTED TO PROPOSED MANHOLE (S-8). EXISTING 12" RCP STORMWATER PIPE TO BE CLEANED AND DE-SILTED.

|   |  |  |
|---|--|--|
| <b>S-1</b><br>YARD DRAIN (15"ø)<br>RIM EL: 5.00'<br>B.O.S. EL: 0.00'<br>INV. EL (N): 2.00'                        | <b>S-2</b><br>CATCH BASIN (48"ø)<br>RIM EL: 5.00'<br>B.O.S. EL: (-)2.00'<br>INV. EL (N): 1.85'<br>INV. EL (S): 1.85'   | <b>S-3</b><br>CATCH BASIN (48"ø)<br>RIM EL: 5.00'<br>B.O.S. EL: (-)2.00'<br>INV. EL (NE): 1.60'<br>INV. EL (S): 1.60'<br>INV. EL (NW): 1.60'     |
| <b>S-4</b><br>YARD DRAIN (15"ø)<br>RIM EL: 6.00'<br>B.O.S. EL: 0.00'<br>INV. EL (SE): 1.60'                       | <b>S-5</b><br>YARD DRAIN (15"ø)<br>RIM EL: 4.50'<br>B.O.S. EL: 0.00'<br>INV. EL (SW): 1.65'  | <b>S-6</b><br>GRAVITY WELL (5'x10')<br>RIM EL: 6.00'<br>B.O.S. EL: (-)2.50'<br>TOP OF WELL EL: 3.50'<br>INV. EL (N): 1.50'<br>INV. EL (S): 1.50' |
| <b>S-7</b><br>CITY OF MIAMI TYPE F3 CATCH BASIN<br>RIM EL: 4.00'<br>B.O.S. EL: (-)2.00'<br>INV. EL (SW): (-)1.00' | <b>S-8</b><br>CITY OF MIAMI TYPE A MANHOLE<br>RIM EL: 4.50'<br>B.O.S. EL: (-)3.05'<br>INV. EL (NE): (-)1.05'<br>INV. EL (NW): 1.61'<br>*EXISTING STORMWATER PIPE; CONNECT EXISTING PIPE TO NEW MANHOLE | <b>S-9</b><br>CITY OF MIAMI TYPE D CATCH BASIN<br>RIM EL: 4.40'<br>B.O.S. EL: (-)2.90'<br>INV. EL (NE): (-)0.90'                                 |

REFER TO CURTIS PARK NEW POOL FACILITY DRAWINGS BY GIL-MCGRAW ARCHITECTS, LLP FOR ADDITIONAL INFORMATION

**BID SET**  
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Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.  
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**SCS ENGINEERS**  
STEARNS, CONRAD AND SCHMIDT  
CONSULTING ENGINEERS, INC.  
7700 N. KENDALL DRIVE, SUITE 900, MIAMI, FL 33156  
PH. (305) 412-8185 FAX. (305) 412-8105 FL  
CERTIFICATE OF AUTHORIZATION NO. 00004892

**PROFESSIONAL SEAL:**

WILLIAM D. HEIKKINEN, P.E.  
FL. REG. NO. 78529

**PROJECT NUMBER: 09215101.00**

**PROJECT NAME & ADDRESS:**

**CURTIS PARK**  
NEW POOL FACILITY  
1901 NW 24 AVENUE  
MIAMI, FLORIDA  
B-35806

**CLIENT NAME & ADDRESS:**

CITY OF MIAMI  
CAPITAL IMPROVEMENTS AND  
TRANSPORTATION PROGRAM  
444 SW 2ND AVENUE  
MIAMI, FLORIDA 33130

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**SCALE:** AS NOTED

**FILE NAME:** SEE PLOT STAMP

**DRAWN BY:** JDR

**CHECKED BY:** WDH

**DATE:** AUGUST 2016

**DRAWING TITLE:**

**PAVING, GRADING AND DRAINAGE PLAN**

**DRAWING NUMBER:**

**C-6.0**

SHEET **9** of **15**

PROFESSIONAL SEAL:

WILLIAM D. HEIKKINEN, P.E.  
 FL. REG. NO. 78529

PROJECT NUMBER: 09215101.00

PROJECT NAME & ADDRESS:

**CURTIS PARK**  
 NEW POOL FACILITY  
 1901 NW 24 AVENUE  
 MIAMI, FLORIDA  
 B-35806

CLIENT NAME & ADDRESS:

  
 CITY OF MIAMI  
 CAPITAL IMPROVEMENTS AND  
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 444 SW 2ND AVENUE  
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SCALE: AS NOTED

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DRAWN BY: JDR

CHECKED BY: WDH

DATE: AUGUST 2016

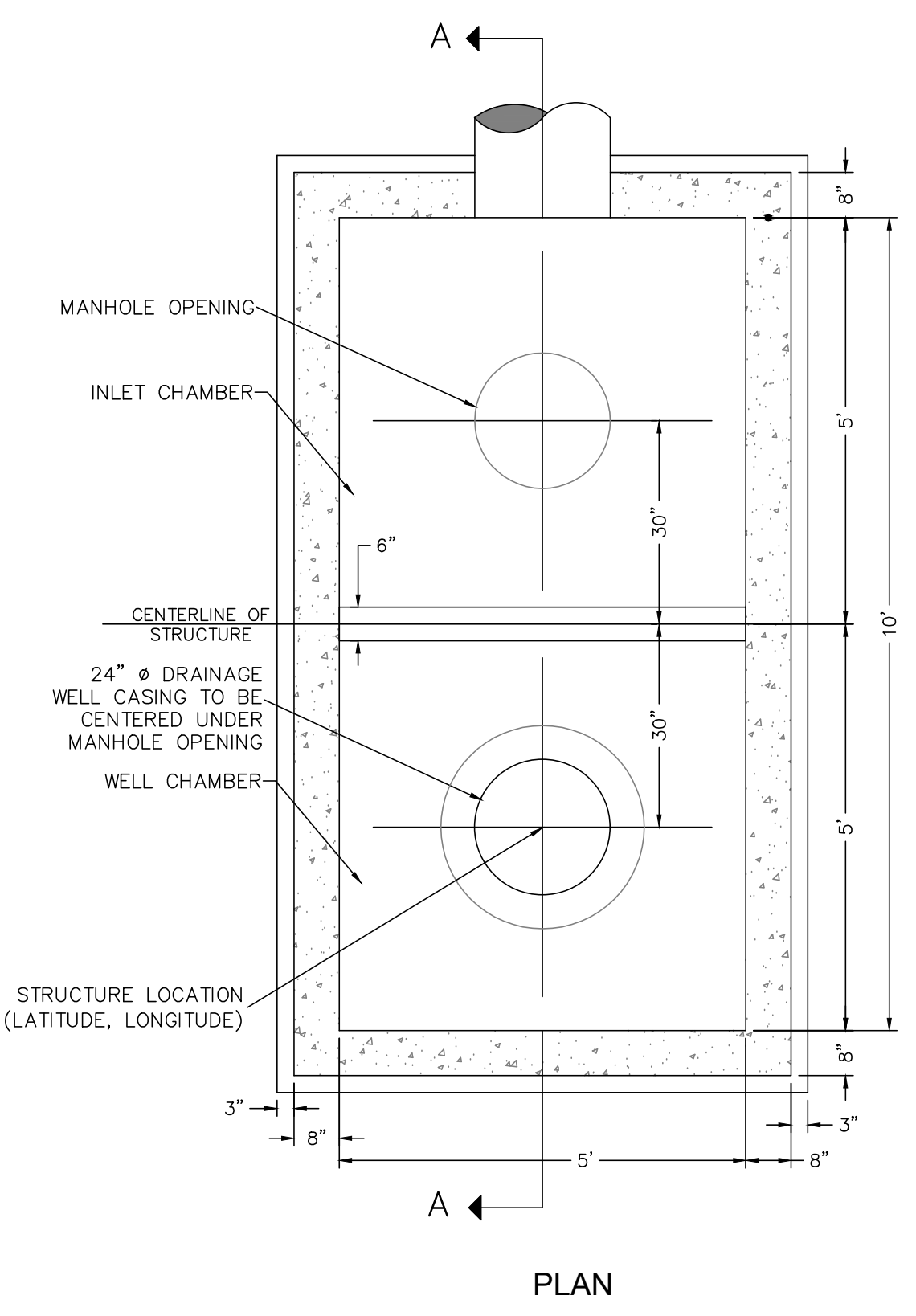
DRAWING TITLE:

**PAVING, GRADING AND  
 DRAINAGE DETAILS**

DRAWING NUMBER:

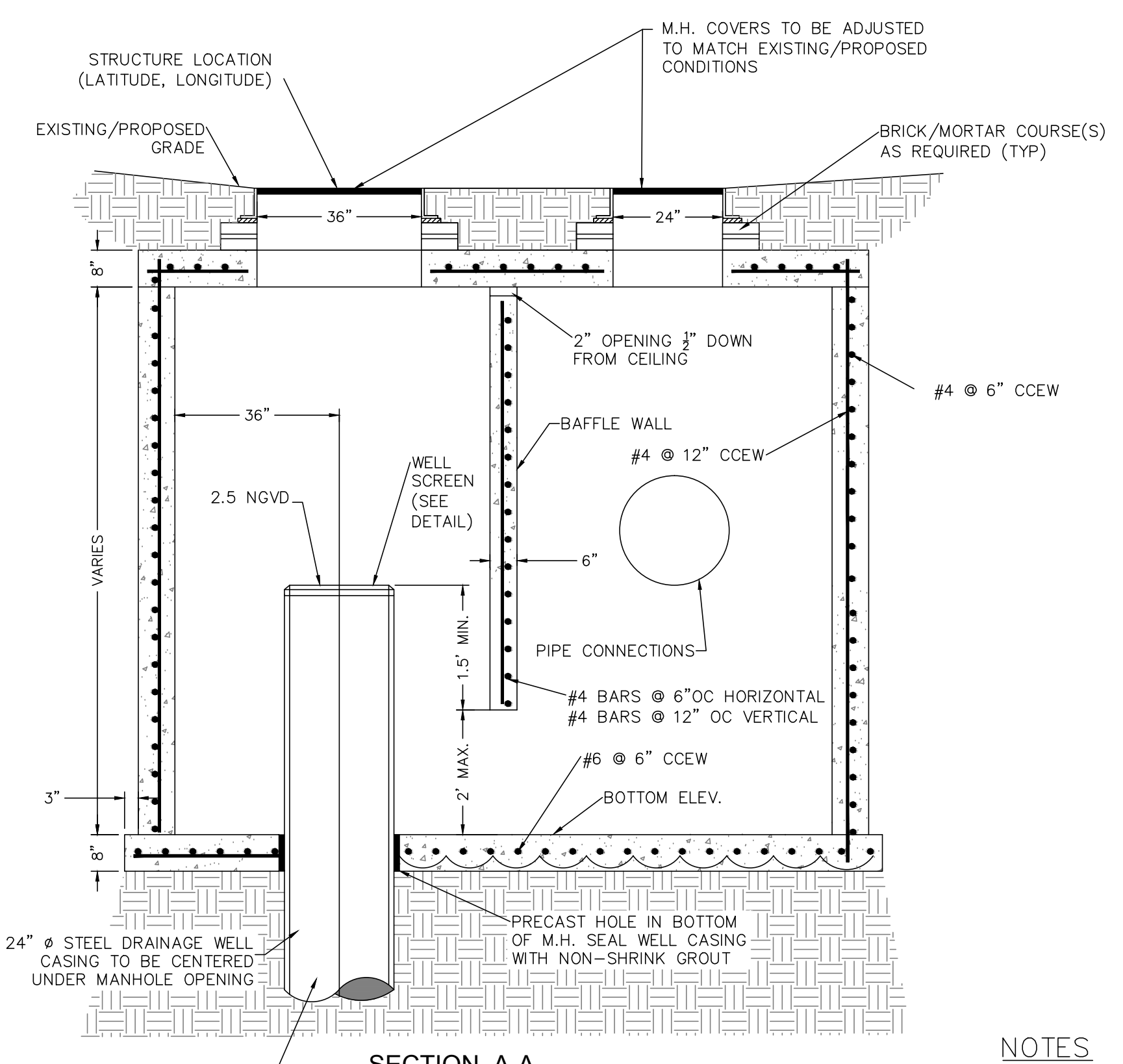
**C-6.1**

SHEET 10 of 15



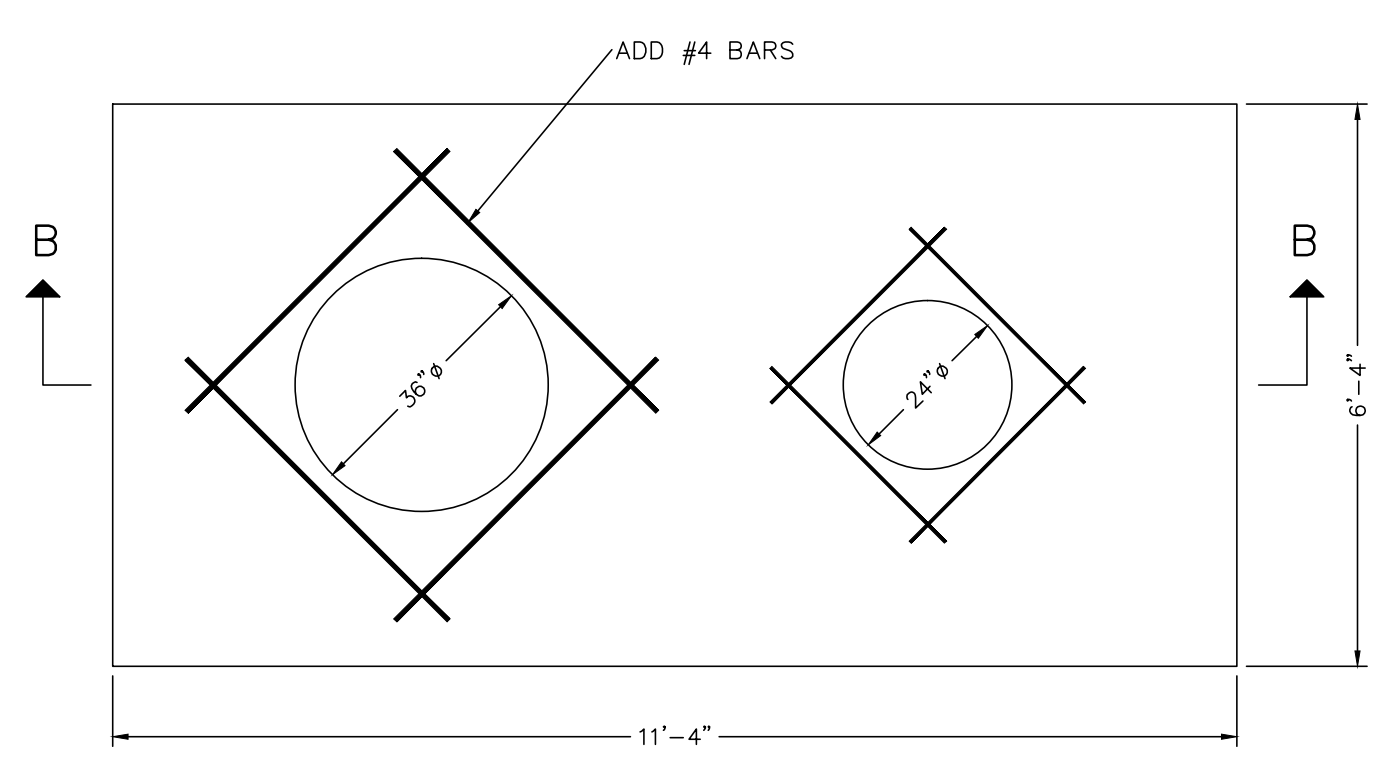
PLAN

MIN. CASING DEPTH = 85'-FT BELOW LAND SURFACE  
 MIN. TOTAL DEPTH OF WELL = 105'-FT BELOW LAND SURFACE

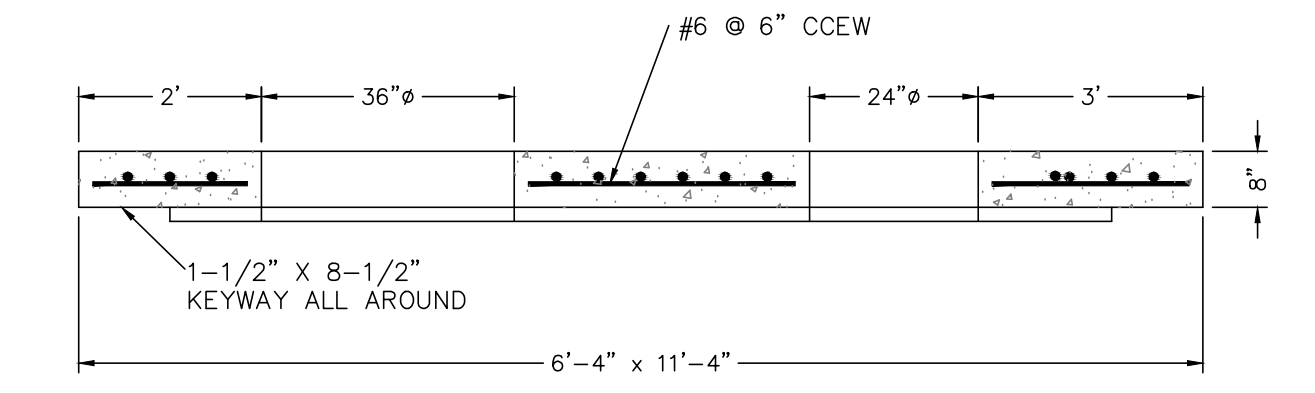


SECTION A-A

TYPICAL GRAVITY WELL STRUCTURE  
 N.T.S.



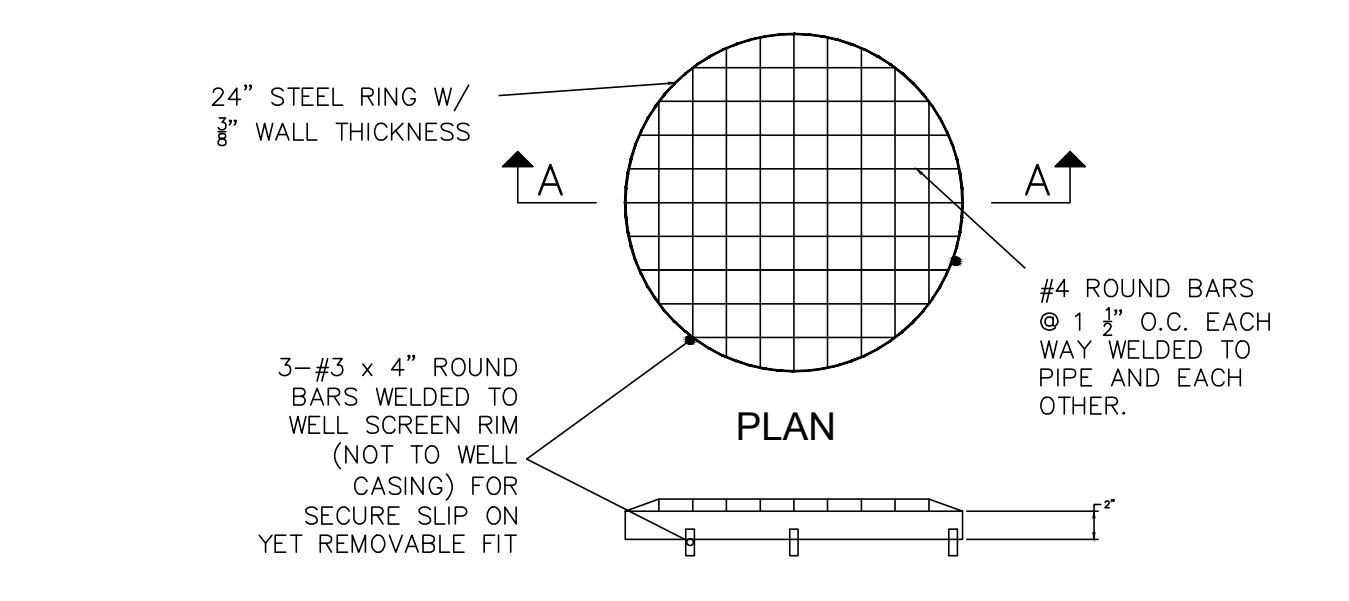
TOP SLAB



SECTION B-B

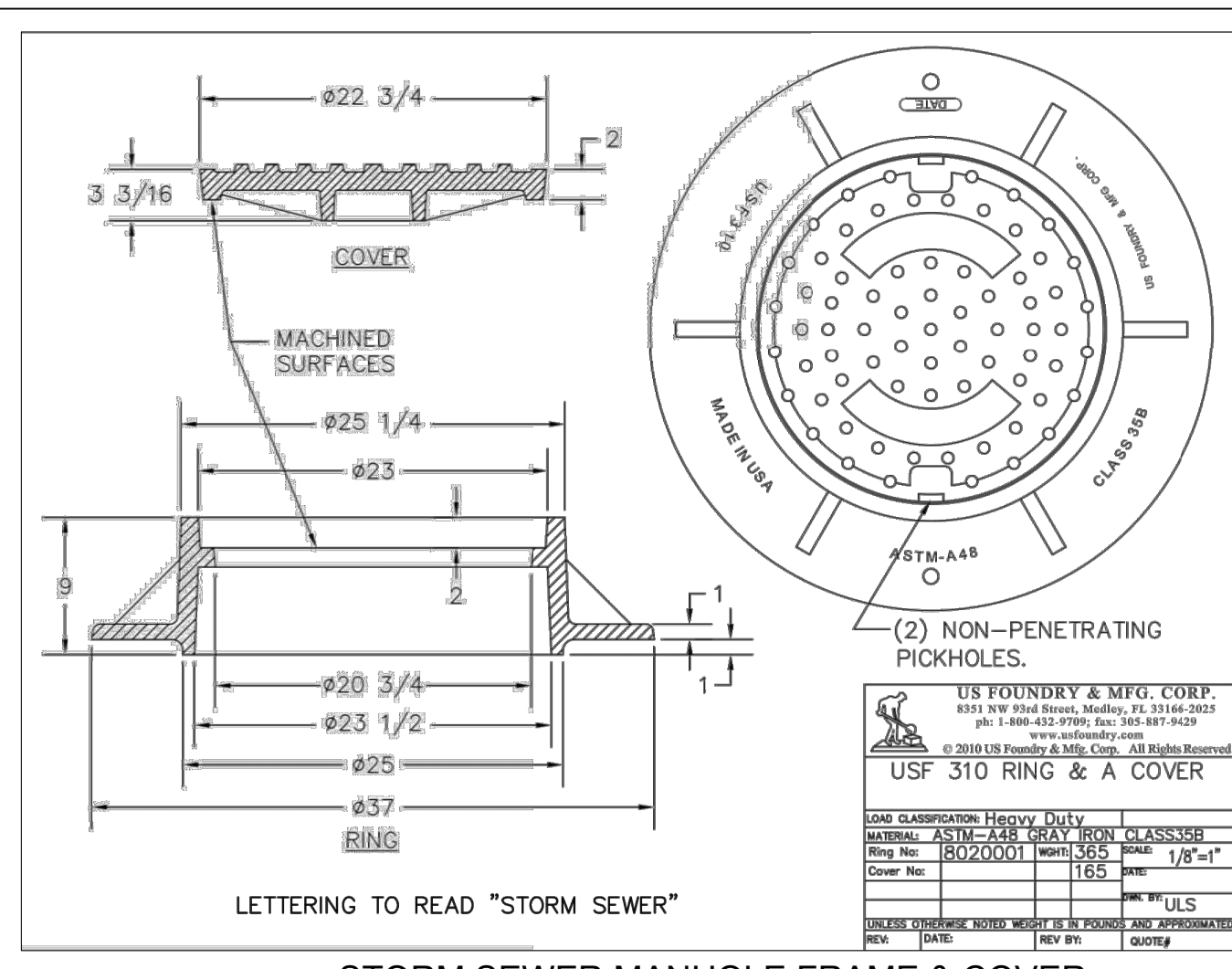
NOTES

1. USP POLLUTION RETARDANT BASINS: BAFFLE TYPE, LARGE RECTANGULAR TYPE "C" STRUCTURE W/ TOP SLAB INNER DIMENSION IS 5' X 10'.
2. 36" OPENING WILL REQUIRE USF 667 CR-0D
3. 24" OPENING WILL REQUIRE USF 310 RING TYPE A COVER
4. NO WELDS ARE ALLOWED ON THE TOP 15 FEET OF THE WELL CASING; DEPTH OF WELL TO BE TO THE DEPTH OF THE DESIGN DEVELOPMENT WELL RATE; GRATE ON WELL HEAD TO BE CORROSION RESISTANT IN A SALT WATER ENVIRONMENT.



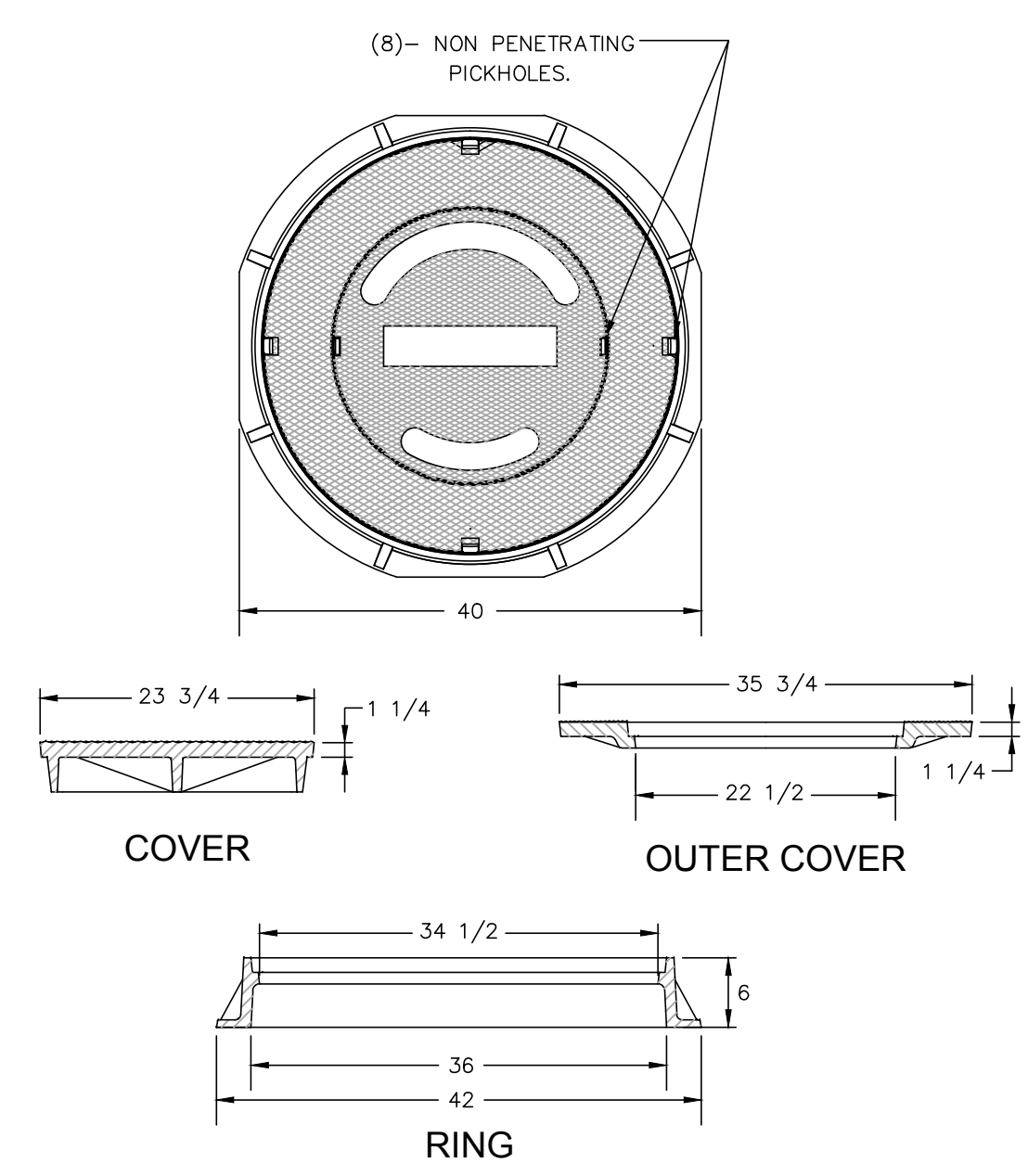
WELL SCREEN DETAIL

(HOT DIP GALVANIZED AFTER FABRICATION)  
 NTS



STORM SEWER MANHOLE FRAME & COVER

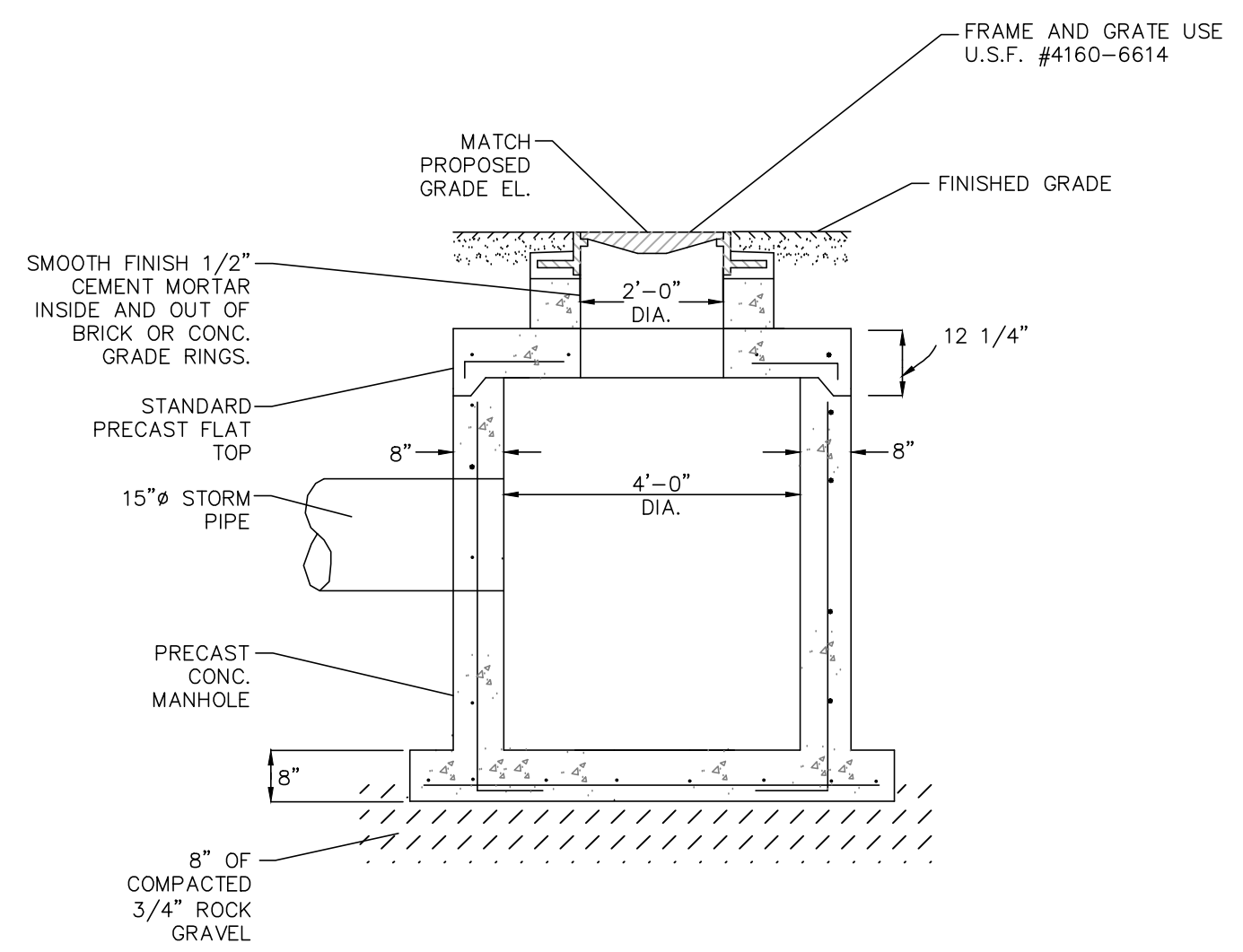
USF 310 RING & A COVER  
 (OR APPROVED EQUAL)



NOTES:

1. MATERIAL: ASTM-A48 CLASS 30B GRAY IRON.
2. RING WT: 220 LBS. APP.
3. OUTER COVER WT: 220 LBS. APP.
4. INNER COVER WT: 190 LBS. APP.
5. LETTERS SHALL STATE "WELL"

MANHOLE RING & COVER  
 USF 667 CR-0D  
 N.T.S.



TYPICAL CATCH BASIN

N.T.S.

| GRAVITY WELL SCHEDULE |               |               |             |             |                  |               |                       |                     |                        |
|-----------------------|---------------|---------------|-------------|-------------|------------------|---------------|-----------------------|---------------------|------------------------|
| STRUCTURE NAME        | LATITUDE      | LONGITUDE     | NORTHING    | EASTING     | INSIDE DIMENSION | RIM ELEVATION | TOP OF WELL ELEVATION | BOTTOM OF STRUCTURE | INVERT ELEVATION       |
| S-6                   | N25°47'28.10" | W80°14'06.81" | 530510.6998 | 907804.7898 | 5'x10'           | 6.00'         | 3.50'                 | -2.50'              | 1.50' (N)<br>1.50' (S) |

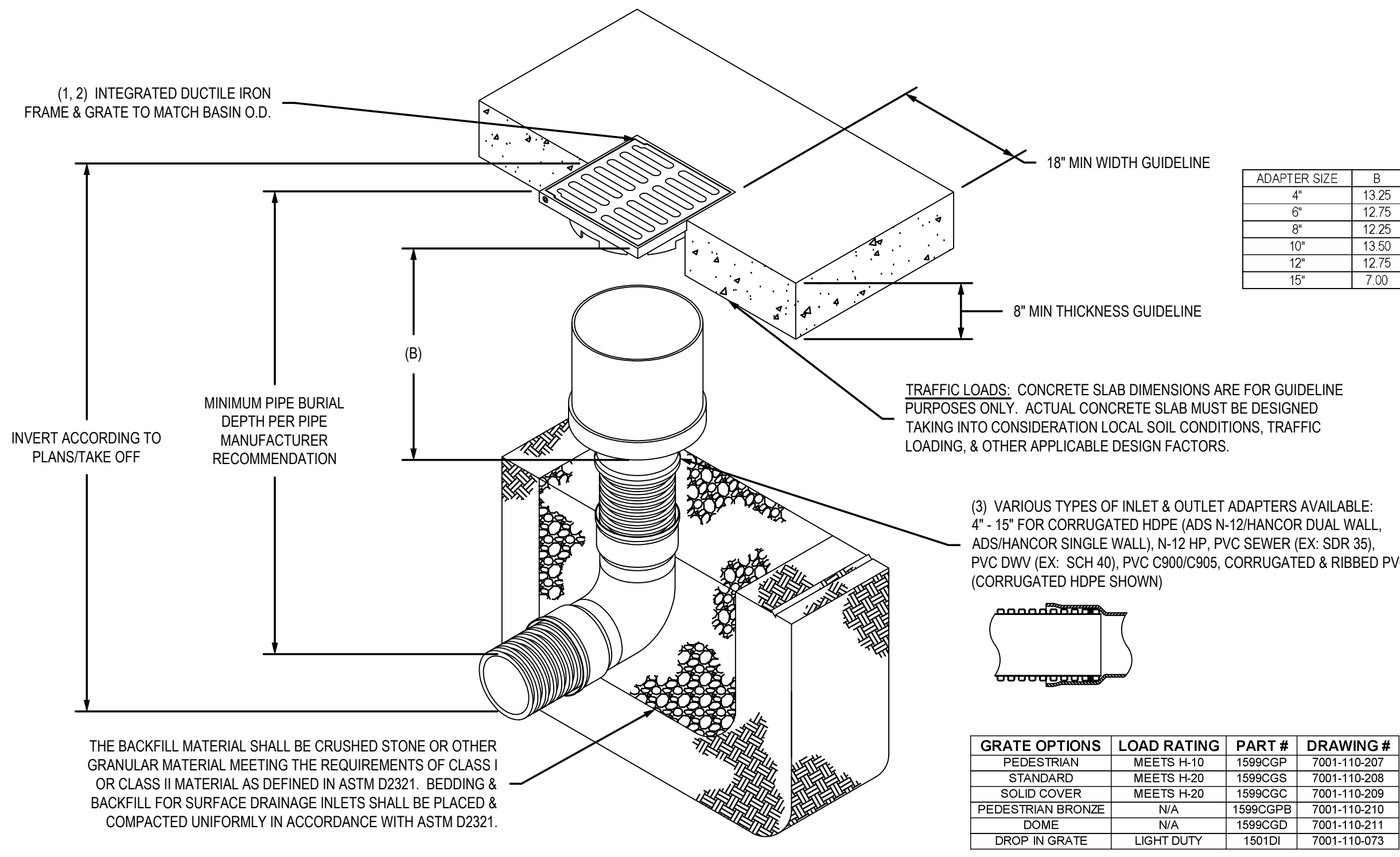
**BID SET**

NOT FOR CONSTRUCTION



Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.  
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**NYLOPLAST 15" INLINE DRAIN: 2715AG \_\_X**



| ADAPTER SIZE | B     |
|--------------|-------|
| 4"           | 13.25 |
| 6"           | 12.75 |
| 8"           | 12.25 |
| 10"          | 13.50 |
| 12"          | 12.75 |
| 15"          | 7.00  |

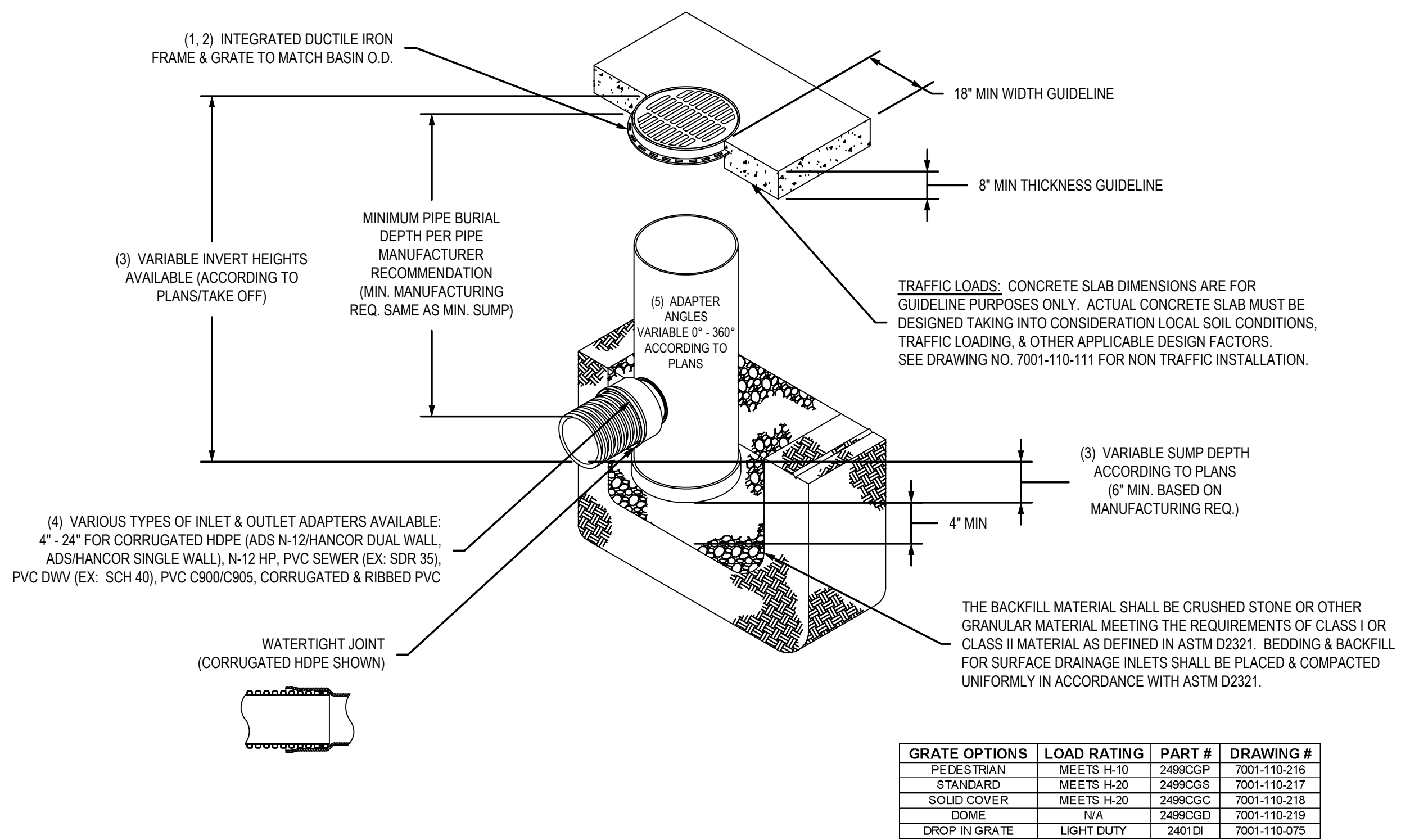
| GRATE OPTIONS     | LOAD RATING | PART #   | DRAWING #    |
|-------------------|-------------|----------|--------------|
| PEDESTRIAN        | MEETS H-10  | 1599CGP  | 7001-110-207 |
| STANDARD          | MEETS H-20  | 1599CGS  | 7001-110-208 |
| SOLID COVER       | MEETS H-20  | 1599CGC  | 7001-110-209 |
| PEDESTRIAN BRONZE | N/A         | 1599CGPB | 7001-110-210 |
| DOME              | N/A         | 1599CGD  | 7001-110-211 |
| DROP IN GRATE     | LIGHT DUTY  | 1501DI   | 7001-110-073 |

- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, N-12 HP, & PVC SEWER).
- DIMENSIONS ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY.
- DIMENSIONS ARE IN INCHES.
- SEE DRAWING NO. 7001-110-275 FOR ADS N-12 & HANCOR DUAL WALL BELL INFORMATION & DRAWING NO. 7001-110-366 FOR N-12 HP BELL INFORMATION.

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|            |              |                  |   |
|------------|--------------|------------------|---|
| DRAWN BY   | EBC          | MATERIAL         | 3130 VERONA AVE<br>BURLINGAME, CA 94018<br>PHN (770) 932-2443<br>FAX (770) 932-2490 |
| DATE       | 04-03-06     | PROJECT NO./NAME |   |
| REVISED BY | CCA          | TITLE            | <b>Nyloplast</b><br>www.nyloplast-us.com  |
| DATE       | 08-19-13     | TITLE            | 15 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL                                   |
| DWG SIZE   | A            | SCALE            | 1:20 SHEET 1 OF 1   |
| DWG NO.    | 7003-110-026 | REV              | D   |

**NYLOPLAST 24" DRAIN BASIN: 2824AG \_\_X**



| GRATE OPTIONS | LOAD RATING | PART #  | DRAWING #    |
|---------------|-------------|---------|--------------|
| PEDESTRIAN    | MEETS H-10  | 2499CGP | 7001-110-216 |
| STANDARD      | MEETS H-20  | 2499CGS | 7001-110-217 |
| SOLID COVER   | MEETS H-20  | 2499CGC | 7001-110-218 |
| DOME          | N/A         | 2499CGD | 7001-110-219 |
| DROP IN GRATE | LIGHT DUTY  | 2401DI  | 7001-110-075 |

- GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
- DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, N-12 HP, & PVC SEWER).
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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| DRAWN BY   | EBC          | MATERIAL         | 3130 VERONA AVE<br>BURLINGAME, CA 94018<br>PHN (770) 932-2443<br>FAX (770) 932-2490 |
| DATE       | 04-03-06     | PROJECT NO./NAME |   |
| REVISED BY | CCA          | TITLE            | <b>Nyloplast</b><br>www.nyloplast-us.com  |
| DATE       | 08-27-13     | TITLE            | 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL                                    |
| DWG SIZE   | A            | SCALE            | 1:40 SHEET 1 OF 1   |
| DWG NO.    | 7001-110-192 | REV              | D   |

**Section 2722**

**Engineered Surface Drainage Products**

**GENERAL**  
PVC surface drainage inlets shall be of the inline drain type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

**MATERIALS**  
The inline drain required for this contract shall be manufactured from PVC pipe stock, utilizing a thermo-molding process to reform the pipe stock to the furnished configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the inline drain body by use of a swage mechanical joint. The raw material used to manufacture the pipe stock that is used to manufacture the inline drain body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates furnished for all surface drainage inlets shall be ductile iron grates for sizes 8", 10", 12", 15", 18", 24" and 30" shall be made specifically for each fitting so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for inline drains shall be capable of supporting H-20 wheel loading for traffic areas or H-10 loading for pedestrian areas. 12" and 15" square grates will be hinged to the frame using pins. Metal used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05 for ductile iron. Grates shall be provided painted black.

**INSTALLATION**  
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For H-20 load rated installations, a concrete ring will be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

|            |              |                  |   |
|------------|--------------|------------------|---|
| DRAWN BY   | CJA          | MATERIAL         | 3130 VERONA AVE<br>BURLINGAME, CA 94018<br>PHN (770) 932-2443<br>FAX (770) 932-2490 |
| DATE       | 03-10-00     | PROJECT NO./NAME |   |
| REVISED BY | CCA          | TITLE            | <b>Nyloplast</b><br>www.nyloplast-us.com  |
| DATE       | 09-09-13     | TITLE            | 8 IN - 30 IN INLINE DRAIN SPECIFICATIONS  |
| DWG SIZE   | A            | SCALE            | 1:1 SHEET 1 OF 1  |
| DWG NO.    | 7003-110-009 | REV              | G   |

**Section 2721**

**Engineered Surface Drainage Products**

**GENERAL**  
PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

**MATERIALS**  
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

**INSTALLATION**  
The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

|            |              |                  |   |
|------------|--------------|------------------|---|
| DRAWN BY   | CJA          | MATERIAL         | 3130 VERONA AVE<br>BURLINGAME, CA 94018<br>PHN (770) 932-2443<br>FAX (770) 932-2490 |
| DATE       | 3-10-00      | PROJECT NO./NAME |   |
| REVISED BY | JJC          | TITLE            | <b>Nyloplast</b><br>www.nyloplast-us.com  |
| DATE       | 4-25-13      | TITLE            | 8 IN - 30 IN DRAIN BASIN SPECIFICATIONS   |
| DWG SIZE   | A            | SCALE            | 1:1 SHEET 1 OF 1  |
| DWG NO.    | 7001-110-011 | REV              | G   |

**SCS ENGINEERS**  
STEARNS, CONRAD AND SCHMIDT  
CONSULTING ENGINEERS, INC.  
17700 N. KENDALL DRIVE, SUITE 300, MIAMI, FL 33156  
PH. (305) 412-8185 FAX. (305) 412-8105 FL  
CERTIFICATE OF AUTHORIZATION NO. 00004892

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**CITY OF MIAMI**  
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444 SW 2ND AVENUE  
MIAMI, FLORIDA 33130

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SCALE: AS NOTED

FILE NAME: SEE PLOT STAMP

DRAWN BY: JDR

CHECKED BY: WDH

DATE: AUGUST 2016

DRAWING TITLE:

**PAVING, GRADING AND DRAINAGE DETAILS**

DRAWING NUMBER:

**C-6.2**

\\MIAMI-FS01\Miami\ESMASTER\City of Miami\Curtis Park\Drawings\Pool CAP\Bid Set Drawings\C-6.2\_POD\_DETAILS.dwg Jul 28, 2016 - 11:54am Layout Name: C6.2 By: 4060jed

**BID SET**  
NOT FOR CONSTRUCTION  
**Sunshine811**  
Call 811 or www.sunshine811.com two full  
business days before digging to have utilities  
located and marked.  
Check positive response codes before you dig!

PROFESSIONAL SEAL:

WILLIAM D. HEIKKINEN, P.E.  
 FL. REG. No. 78529

PROJECT NUMBER: 09215101.00

PROJECT NAME & ADDRESS:

**CURTIS PARK**  
 NEW POOL FACILITY  
 1901 NW 24 AVENUE  
 MIAMI, FLORIDA

B-35806

CLIENT NAME & ADDRESS:



CITY OF MIAMI  
 CAPITAL IMPROVEMENTS AND  
 TRANSPORTATION PROGRAM  
 444 SW 2ND AVENUE  
 MIAMI, FLORIDA 33130

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DRAWN BY: JDR

CHECKED BY: WDH

DATE: AUGUST 2016

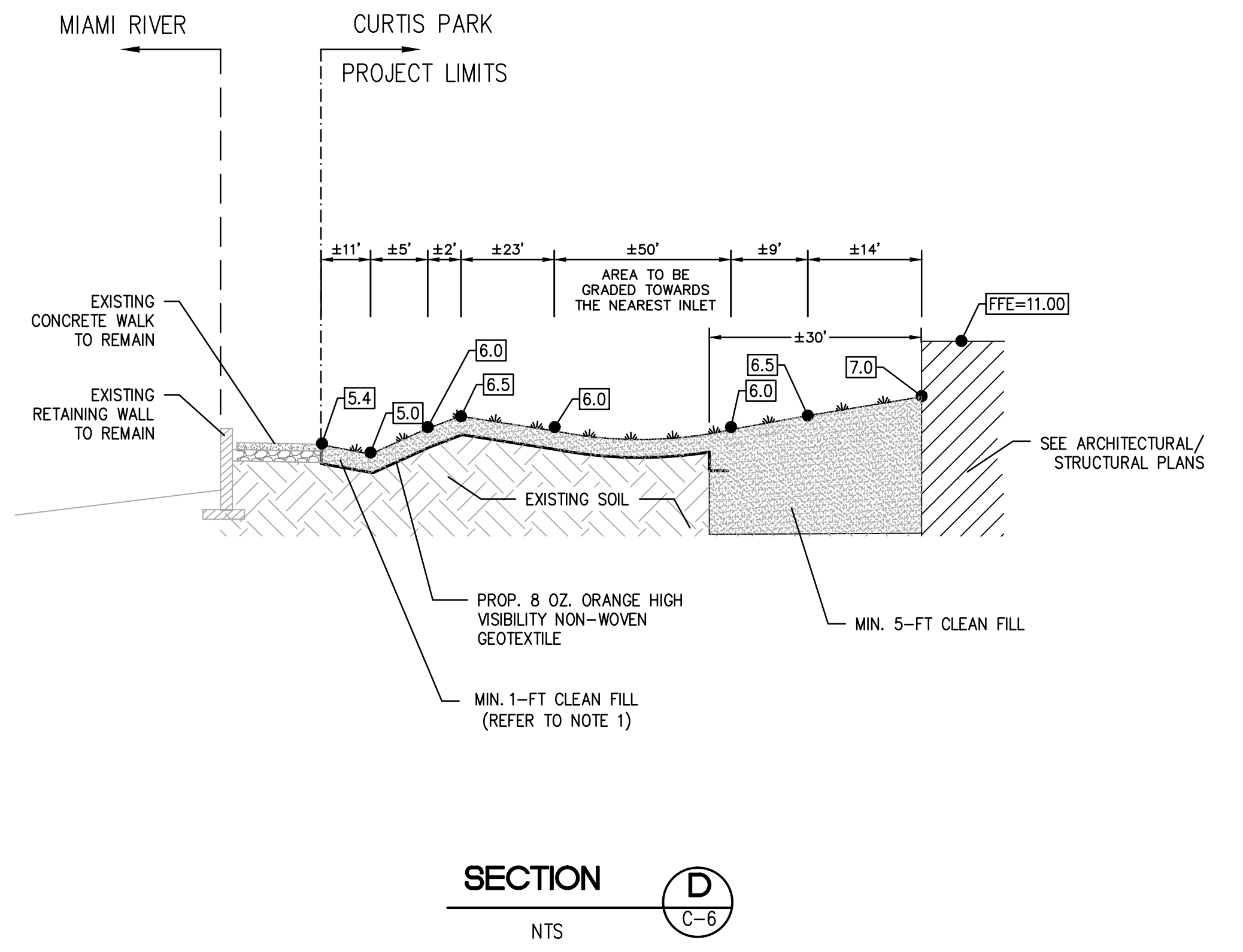
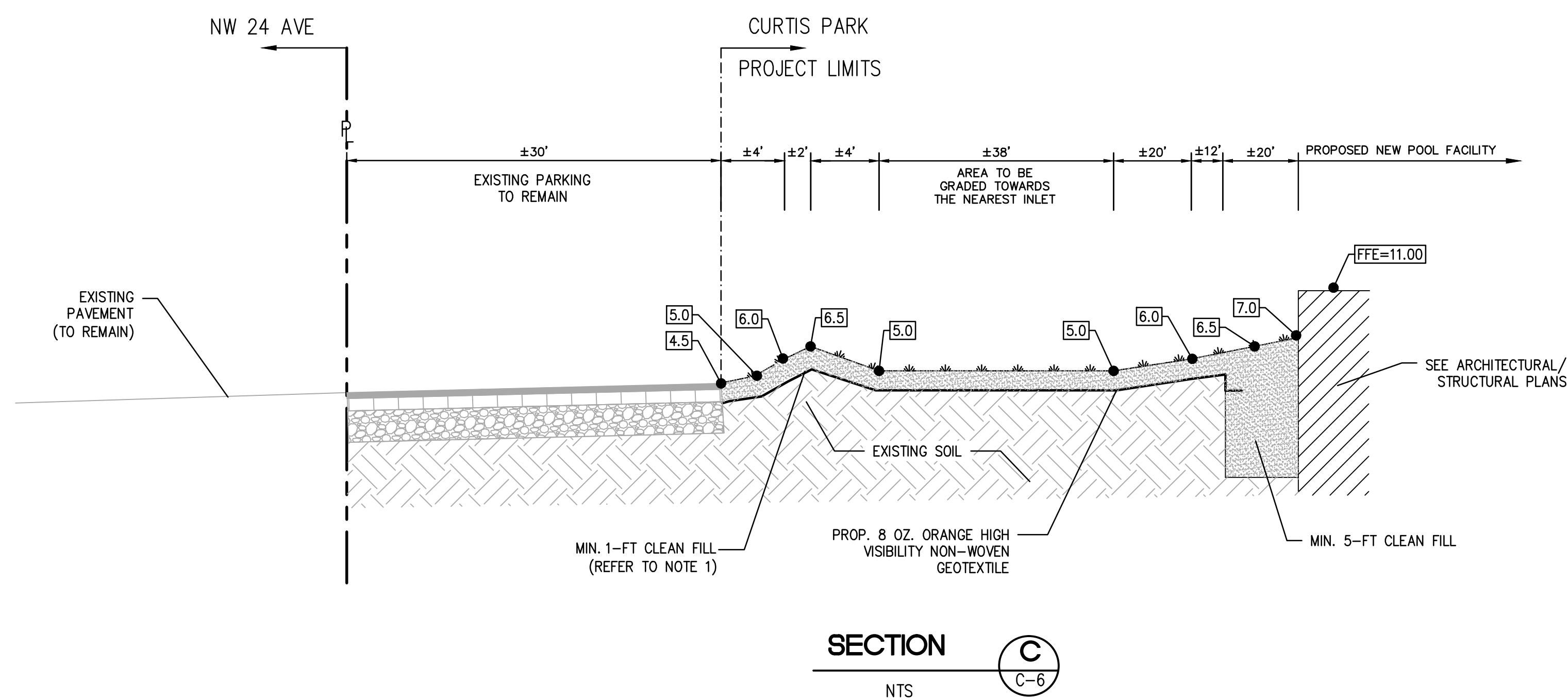
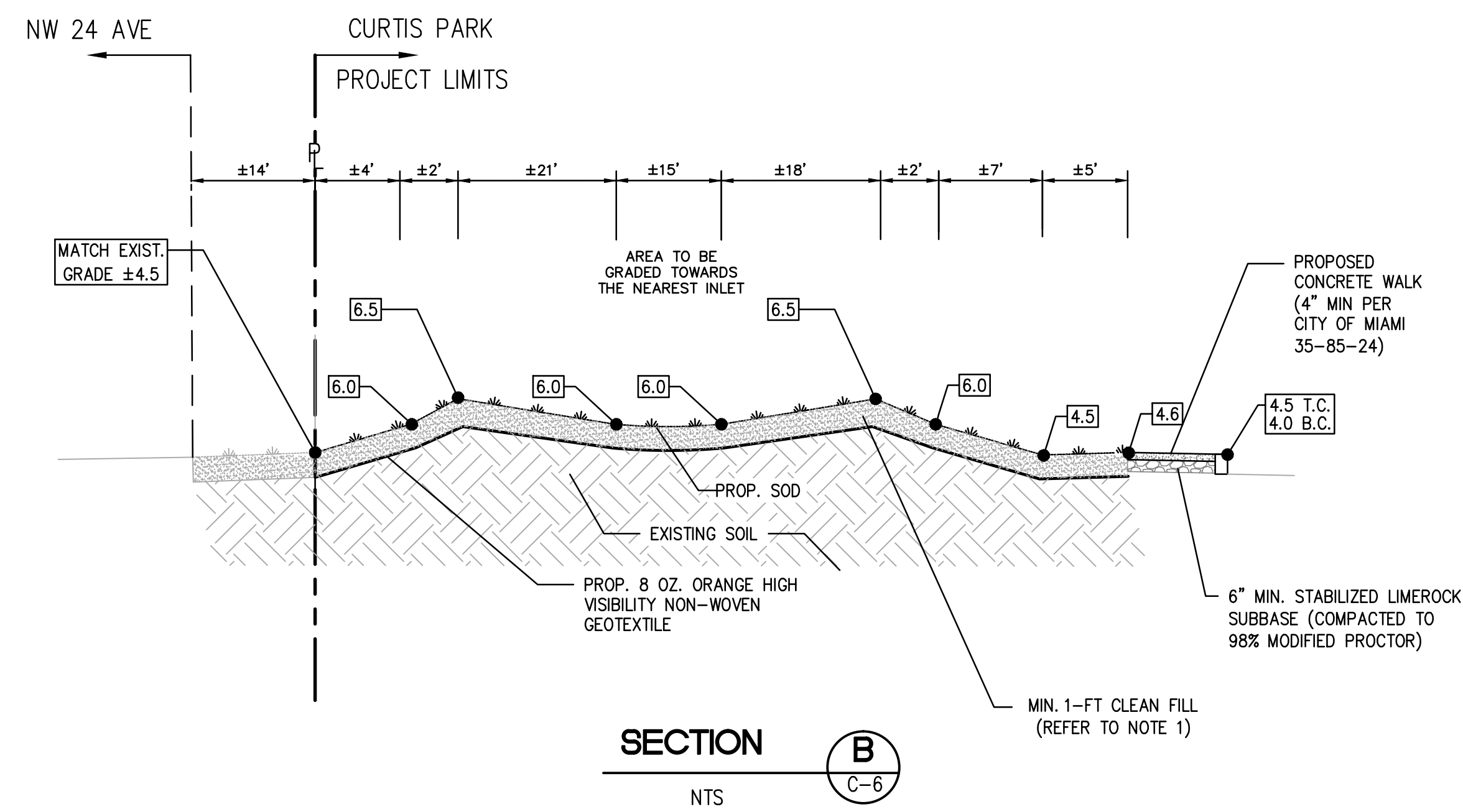
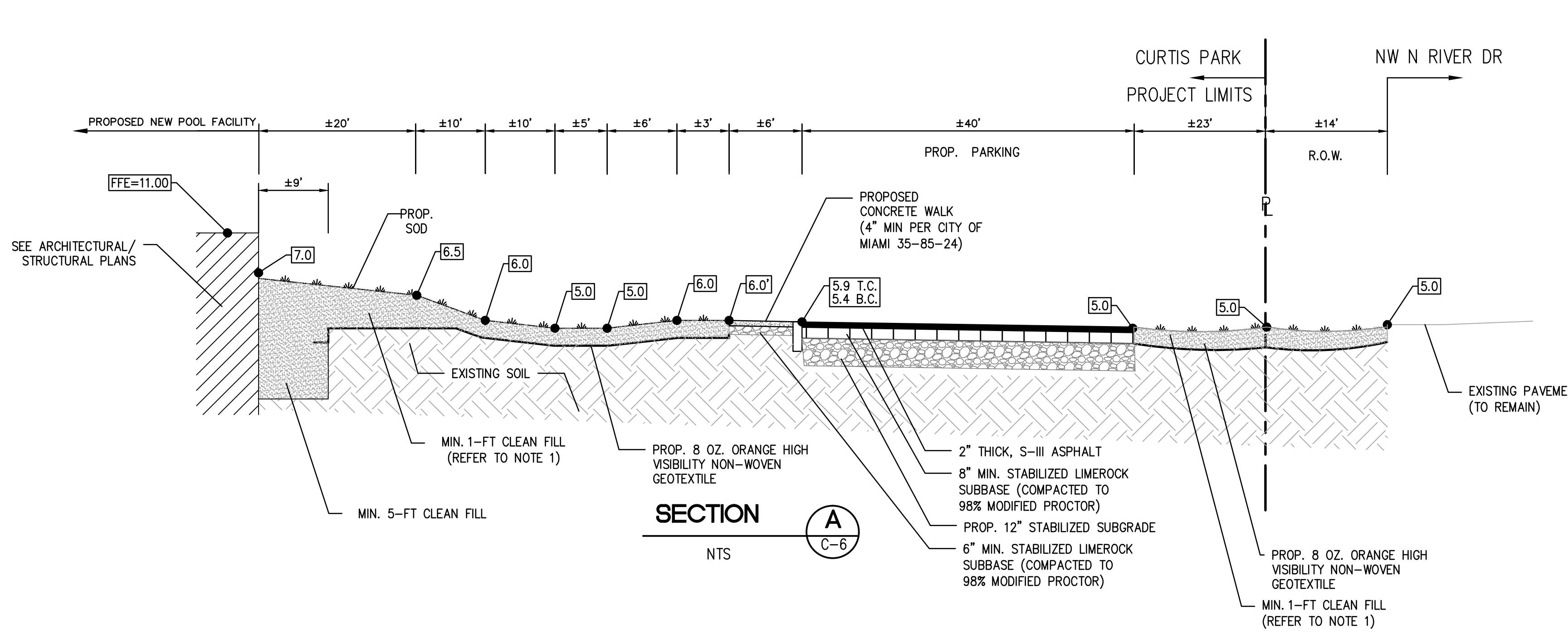
DRAWING TITLE:

**PAVING, GRADING, AND  
 DRAINAGE SECTIONS**

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**C-6.3**

SHEET 12 of 15

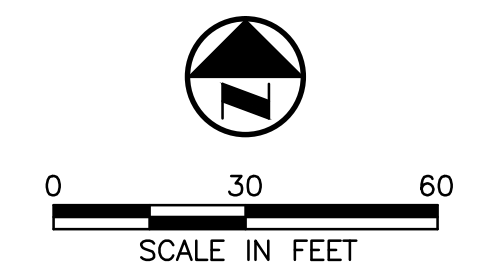
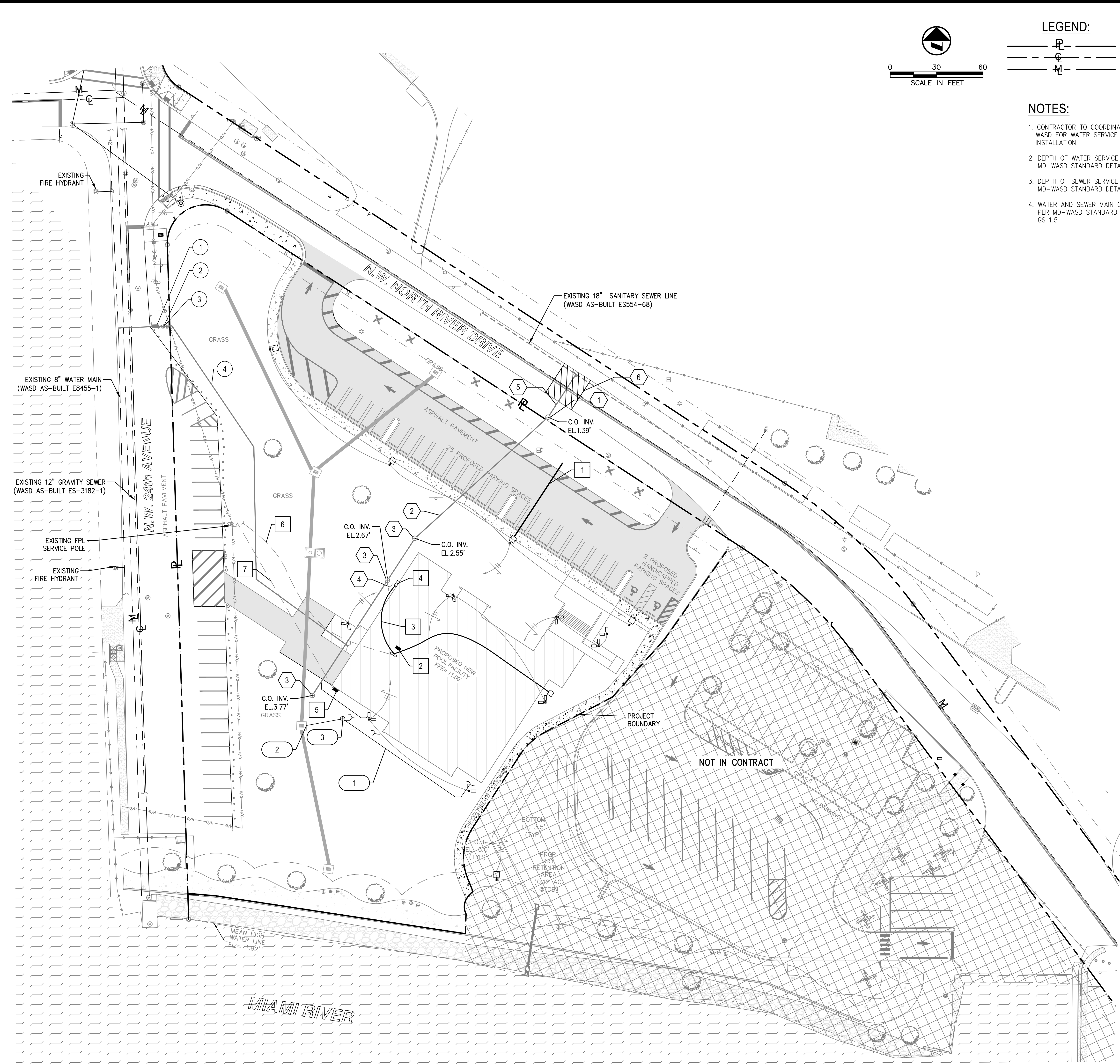


- NOTES**
- FOR FINAL MATERIAL AND COVER REFER TO ENGINEERING CONTROL PLAN SHEET C-5.0
  - CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
  - ELEVATIONS SHOWN ARE SUBJECT TO SPOT ELEVATIONS PER SECTION SHOWN. CONTRACTOR TO REFER TO PAVING, GRADING, AND DRAINAGE PLAN FOR PROPOSED ELEVATIONS THROUGHOUT THE PROJECT SITE.

**BID SET**  
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 Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.  
*Check positive response codes before you dig!*

\\MIAMI-FS01\MIAMI\ESMASTER\CITY OF MIAMI\CURTIS PARK\CAP\Bid Set Drawings\C-6.3 PGD\_SECTIONS.dwg Jul 28, 2016 - 11:54am Layout Name: C-6.3 By: 4060red

\\MIAMI-FS01\Miami\ESMASTER\City of Miami\Curtis Park\Drawings\Pool CAP\Bid Set Drawings\C-7.0 WATER SEWER & UTILITY PLAN.dwg Jul 29, 2016 - 1:35pm Layout Name: C-7.0 By: 4060jed

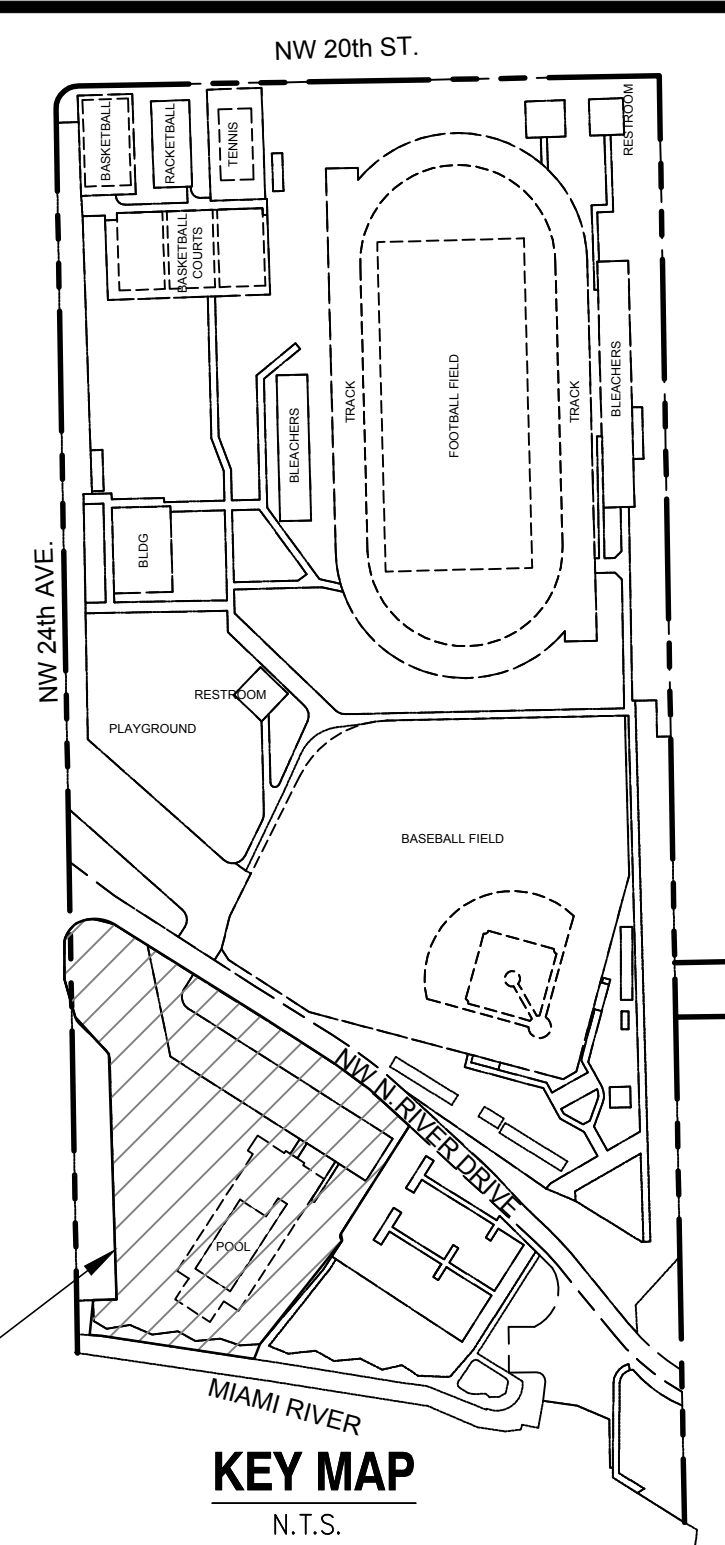


**LEGEND:**

- PROPERTY LINE
- CENTER LINE OF ROADWAY
- MONUMENT LINE

**NOTES:**

1. CONTRACTOR TO COORDINATE WITH WASH FOR WATER SERVICE METER INSTALLATION.
2. DEPTH OF WATER SERVICE PER MD-WASD STANDARD DETAIL WS 2.16
3. DEPTH OF SEWER SERVICE PER MD-WASD STANDARD DETAIL SS1.0
4. WATER AND SEWER MAIN CROSSING PER MD-WASD STANDARD DETAIL GS 1.5



**PROJECT LOCATION**

**CALL-OUT LEGEND**

**WATER SERVICE:**

- 1 WATER SERVICE AND METER TO BE INSTALLED BY MIAMI-DADE WASH FORCES AT OWNER'S EXPENSE. (NOTE 1)
- 2 CONNECT TO NEW WATER METER AND INSTALL BACKFLOW PREVENTER
- 3 INSTALL CONCRETE PAD AND ANTI-THEFT CAGE FOR BACKFLOW PREVENTER PROTECTION
- 4 PROP. 1" DOMESTIC WATER SERVICE (NOTE 2)

**SANITARY SEWER SERVICE:**

- 1 PROP. DIP CLEANOUT PER MIAMI-DADE WASH SS1.0
- 2 PROP. 6" DIP SANITARY SEWER LINE, 8"/FT MIN. (TYP). (NOTE 3)
- 3 PROP. DIP SANITARY SEWER CLEANOUT (TYP).
- 4 PROP. SANITARY CONNECTION TO PROP. NEW POOL FACILITY
- 5 EXISTING 6" CAST IRON SEWER LATERAL TO BE REPLACED W/ 6" DIP LATERAL
- 6 PAVEMENT RESTORATION PER CITY OF MIAMI PUBLIC WORKS STANDARDS DETAILS, MISC 35-88-7

**STORM DRAINAGE SERVICE:**

- 1 PROP. 8" STORM DRAIN (REFER TO PLUMBING DRAWINGS)
- 2 PROP. 8" STORM DRAIN CONNECTION TO PROP. STRUCTURE
- 2 PROP. 8" STORM DRAIN CLEAN OUT

**ELECTRICAL SERVICE:**

- 1 PROP. 1" ELECTRICAL CONDUIT MIN. 18" BELOW GRADE WITH END CAP
- 2 PROP. ELECTRICAL SERVICE MAIN #1 AND #2 OF 2 (PANEL "MDP").
- 3 (1) 2" EMPTY CONDUIT.
- 4 20"x12" "QUAZITE" HANDHOLE FOR FUTURE LIGHTING.
- 5 ELECTRIC METER
- 6 (2) 2" CONDUITS TO PROPERTY LINE FOR TELEPHONE SERVICE
- 7 ELECTRICAL SERVICE LATERAL RUN AT 24" MIN. BELOW GRADE

REFER TO CURTIS PARK NEW POOL FACILITY DRAWINGS BY GILL-MCGRAWARCHITECTS, LLP FOR ADDITIONAL INFORMATION

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PH. (305) 412-8185 FAX. (305) 412-8105 FL  
CERTIFICATE OF AUTHORIZATION NO. 00004892

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PROFESSIONAL SEAL:

WILLIAM D. HEIKKINEN, P.E.  
FL. REG. No. 78529

---

PROJECT NUMBER: 09215101.00

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PROJECT NAME & ADDRESS:

**CURTIS PARK**  
NEW POOL FACILITY  
1901 NW 24 AVENUE  
MIAMI, FLORIDA  
B-35806

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CLIENT NAME & ADDRESS:

CITY OF MIAMI  
CAPITAL IMPROVEMENTS AND  
TRANSPORTATION PROGRAM  
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DRAWN BY: JDR

CHECKED BY: WDH

DATE: AUGUST 2016

DRAWING TITLE:

**WATER, SEWER AND  
UTILITY PLAN**

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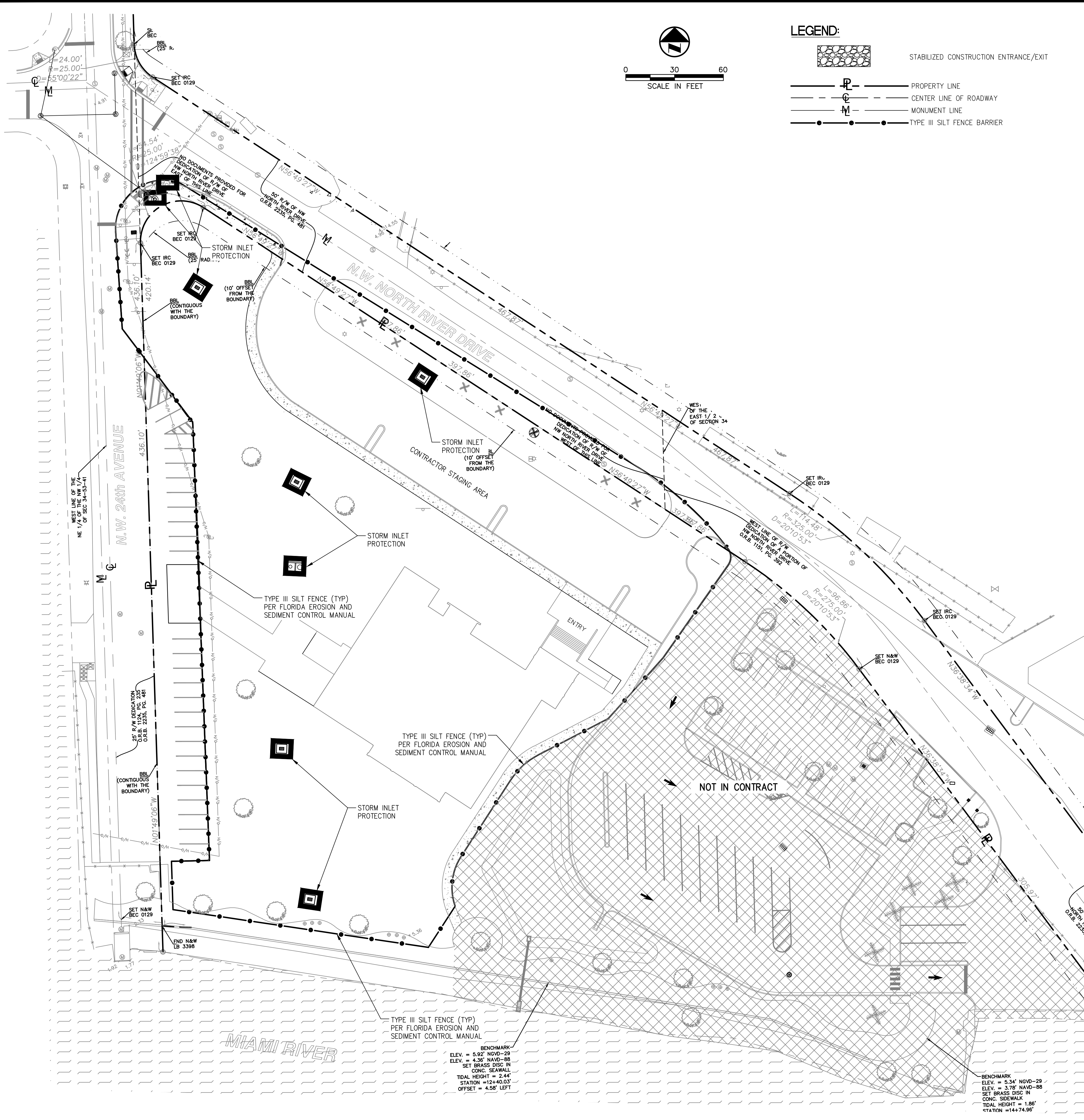
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SHEET **13** of **15**

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**PROJECT/SITE DESCRIPTION:**

THE PROJECT INCLUDES THE DEMOLITION OF THE EXISTING POOL FACILITY, CONSTRUCTION OF A NEW POOL FACILITY, MILLING AND RESURFACING THE EXISTING PARKING LOT, SOIL RELOCATION AND OFF-SITE REMOVAL, UTILITIES AND A STORMWATER DRAINAGE SYSTEM LOCATED AT 1901 NW 24TH AVENUE, MIAMI, FLORIDA.

**GENERAL SEQUENCE OF CONSTRUCTION ACTIVITIES:**

1. INSTALL SILT FENCE AT LOCATIONS SHOWN ON ADJACENT PLAN.
2. DISCONNECT EXISTING UTILITIES TO THE SITE, DEMOLITION OF EXISTING POOL FACILITY, MILLING THE EXISTING PARKING LOT, EXCAVATION OF EXISTING SOLID WASTE AND POTENTIALLY CONTAMINATED SOILS, DISPOSAL OF DEMOLITION DEBRIS, SOLID WASTE AND POTENTIALLY CONTAMINATED SOILS AT A PERMITTED LANDFILL.
3. COMMENCE SITE CONSTRUCTION ACTIVITIES. INSTALLATION OF NEW POOL FACILITY, UTILITIES AND STORMWATER MANAGEMENT SYSTEM - AS PROPOSED INLETS ARE CONSTRUCTED, INSTALL INLET PROTECTION AROUND EACH. INSTALLATION OF UTILITIES. CONSTRUCTION OF BUILDING FOUNDATIONS. CONSTRUCTION OF CURBING, CONCRETE WALKWAYS, ASPHALT DRIVEWAYS AND RESURFACING OF EXISTING PARKING LOT.
4. FINAL GROUND COVER, SODDING, LANDSCAPING, MULCH, ETC.
5. DISPOSE OF ANY REMAINING CONSTRUCTION DEBRIS ACCORDING TO APPLICABLE REGULATORY REQUIREMENTS. REMOVE TEMPORARY POLLUTION PREVENTION MEASURES AFTER FINAL SITE STABILIZATION AND ALL CONSTRUCTION ONSITE HAS BEEN COMPLETED.

**APPROXIMATE SITE AREA INFORMATION:**

TOTAL PROJECT AREA: 2.17 ACRES      LATITUDE: N25° 47' 27.37"  
 TOTAL AREA TO BE DISTURBED: 2.17 ACRES      LONGITUDE: W80° 14' 05.93"

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT. IN PARTICULAR, SEDIMENT AND EROSION CONTROLS AND STORM WATER MANAGEMENT MEASURES SHALL BE STRICTLY FOLLOWED.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION, SEDIMENTATION AND STORM WATER MANAGEMENT MEASURES FOR THE DURATION OF THE PROJECT. ONCE THE PROJECT HAS BEEN COMPLETED, THE CONTRACTOR SHALL REMOVE ALL TEMPORARY STORM WATER MANAGEMENT MEASURES AND SHALL DISPOSE OF THEM ACCORDING TO CODE.

**EROSION AND SEDIMENTATION CONTROLS**

1. CONTRACTOR SHALL INSTALL A SILT FENCE (SEDIMENT BARRIER) AT LOCATIONS SHOWN ON THE ADJACENT PLAN PRIOR TO CLEARING, DEMOLITION, FILLING OR GRADING OF ANY PROPORTIONS OF THE SITE.
2. ALL PROPOSED INLETS/OUTFALLS ONCE INSTALLED, SHALL BE PROTECTED FROM EROSION AND SEDIMENT RUNOFF BY THE USE OF SILT FENCE AND FILTER FABRIC.
3. A GRAVEL ACCESS ROAD (STPD) SHALL BE CONSTRUCTED AT THE CONSTRUCTION ENTRANCE TO MINIMIZE THE EFFECTS OF TRUCK TRAFFIC AND SEDIMENTATION TRACKING BOTH ON AND OFF THE SITE.
4. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE SEEDING SHALL BE RYE (GRAIN) APPLIED AT THE RATE OF 120 POUNDS PER ACRES. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUNDS OF STRAW PER ACRE.
5. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASE SHALL BE STABILIZED WITH PERMANENT SEED AND/OR SOD NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. SEEDING SHALL BE THE SAME AS IN TEMPORARY SEEDING.

**OTHER CONTROLS**

1. CONTRACTOR SHALL COMPLY WITH SPILL PREVENTION, CONTROL AND COUNTER MEASURES (SPCC) REQUIREMENTS PURSUANT TO EPA RULES AND REGULATIONS.
2. ALL CONSTRUCTION WASTE MATERIAL SHALL BE COLLECTED AND STORED IN A SECURE METAL DUMPSTER RENTED FROM A LOCAL WASTE MANAGEMENT COMPANY. THE DUMPSTER WILL MEET LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURES FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED IN THE OFFICE TRAILER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
3. DUMP TRUCKS IMPORTING FILL MATERIALS TO THE SITE SHALL COVER THEIR LOADS WITH A TARPULIN TO AVOID UNNECESSARY GENERATION OF DUST.
4. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF AS PER LOCAL AND/OR STATE REGULATIONS OR AS RECOMMENDED BY THE MANUFACTURER. SITE PERSONNEL SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
5. THE EXISTING DRIVEWAY SHALL SERVE AS THE CONSTRUCTION ENTRANCE AND A STPD PER FLORIDA SEDIMENT AND EROSION CONTROL MANUAL SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE SHALL BE SWEEP DAILY TO REMOVE ANY EXCESS OF MUD, DIRT OR ROCK TRACKED FROM THE SITE.

**MAINTENANCE AND INSPECTION PROCEDURES**

1. THE GENERAL CONTRACTOR'S SITE SUPERINTENDENT SHALL SELECT THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION MAINTENANCE REPORT. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE PROPER TRAINING IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
2. ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED EVERY 7 DAYS OR WITHIN 24 HOURS OF A STORM OF 0.5 INCHES OR MORE IN DEPTH. ALL CONTROLS MUST BE IN GOOD OPERATING CONDITION UNTIL THE AREA THEY PROTECT HAS BEEN COMPLETELY STABILIZED AND THE CONSTRUCTION IS COMPLETED.
3. BUILT UP SEDIMENT WILL BE REMOVED FROM THE SILT FENCE WHEN IT HAS REACHED ONE THIRD OF THE HEIGHT OF THE FENCE.
4. SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, IF FABRIC IS SECURELY ATTACHED TO THE FENCE POST, AND IF FENCE POST IS FIRMLY IN THE GROUND.
5. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
6. THE INSPECTOR SHALL RECORD ANY DAMAGES OR DEFICIENCIES IN THE CONTROL MEASURES ON AN INSPECTION REPORT FORM PROVIDED FOR THIS PURPOSE. THESE REPORTS SHALL DOCUMENT THE INSPECTION OF ALL POLLUTION PREVENTION MEASURES AND SHALL ALSO BE USED TO REQUEST MAINTENANCE AND REPAIR. THE CONTRACTOR SHALL CORRECT DAMAGE OR PROVIDE MAINTENANCE AS RECOMMENDED BY REPORTS AS SOON AS PRACTICAL BUT IN NO CASE LATER THAN 7 DAYS AFTER THE INSPECTION. FAILURE TO DO SO SHALL BE REPORTED TO THE FDEP.

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 CERTIFICATE OF AUTHORIZATION NO. 00004892

**PROFESSIONAL SEAL:**

WILLIAM D. HEIKKINEN, P.E.  
 FL. REG. NO. 78529

**PROJECT NUMBER:** 09215101.00

**PROJECT NAME & ADDRESS:**

**CURTIS PARK**  
 NEW POOL FACILITY  
 1901 NW 24 AVENUE  
 MIAMI, FLORIDA  
 B-35806

**CLIENT NAME & ADDRESS:**

**CITY OF MIAMI**  
 CAPITAL IMPROVEMENTS AND  
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**FILE NAME:** SEE PLOT STAMP

**DRAWN BY:** JDR

**CHECKED BY:** WDH

**DATE:** AUGUST 2016

**DRAWING TITLE:**

**STORMWATER POLLUTION PREVENTION PLAN**

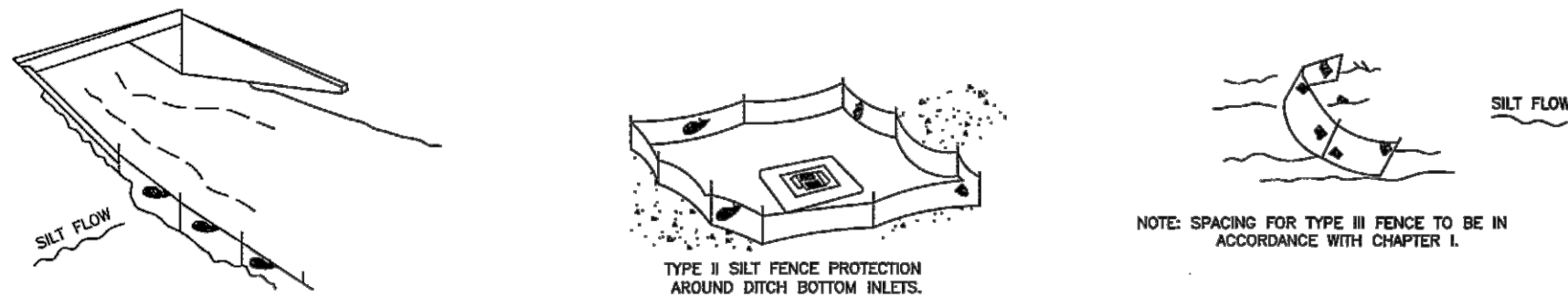
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SHEET **14** of **15**

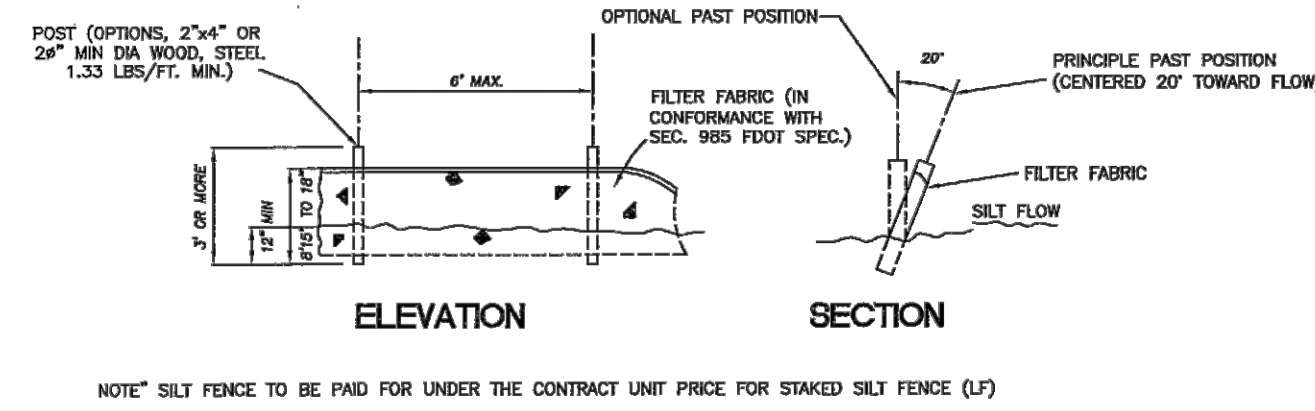
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Call 811 or www.sunshine811.com two full business days before digging to have utilities located and marked.  
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DO NOT DISPLAY IN A SCANNER THAT SILT FENCES WILL ACT AS A DOWN ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND HUMINITY BARRIERS USED OF PERMANENT BODIES OF WATER.

**SILT FENCE APPLICATIONS**



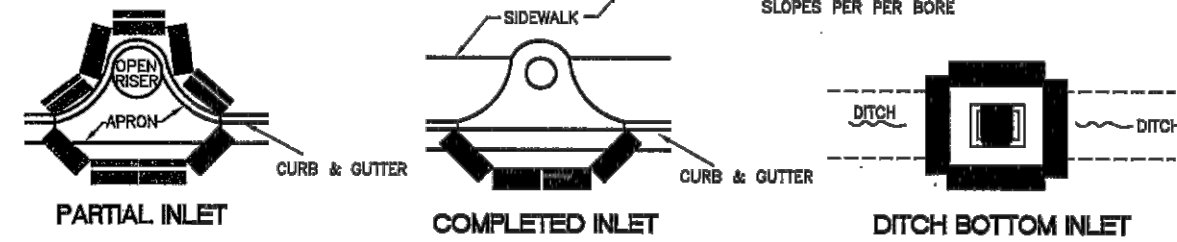
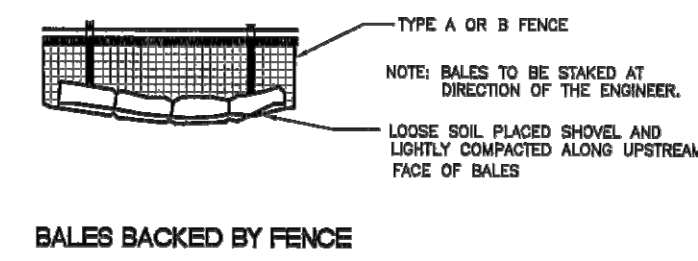
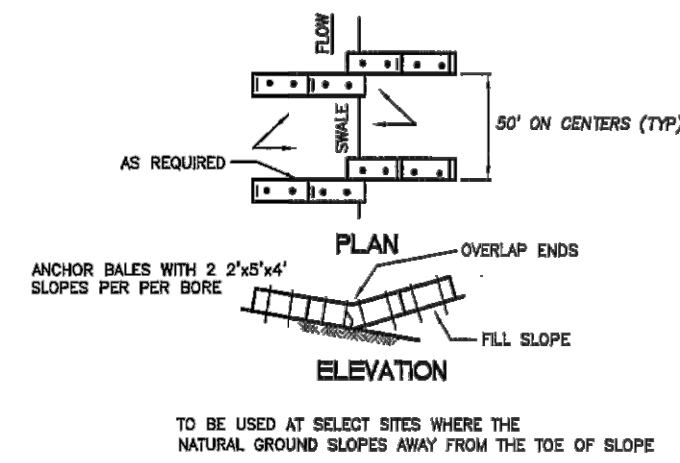
**TYPE III SILT FENCE**

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL.

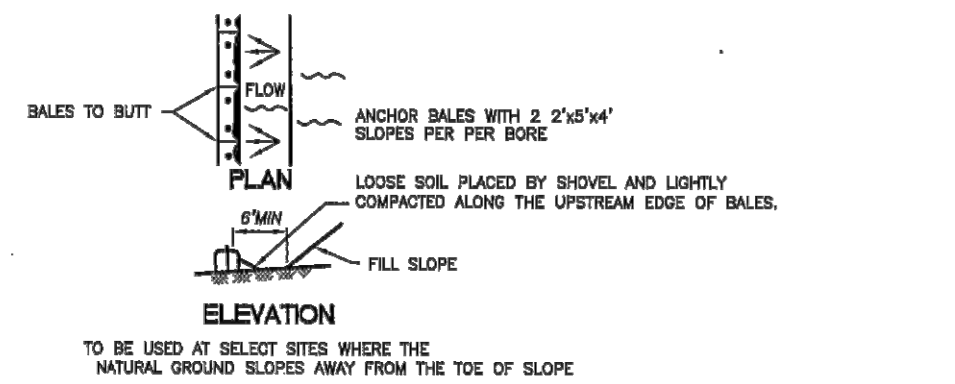
**EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES**

**EXHIBIT 1**

SCALE: N.T.S.  
REFER TO DEPARTMENT OF PUBLIC WORKS  
CITY OF MIAMI, FLORIDA  
STANDARD DETAIL MISC. 35-89-6



**PROTECTION AROUND INLETS OR SIMILAR STRUCTURES**



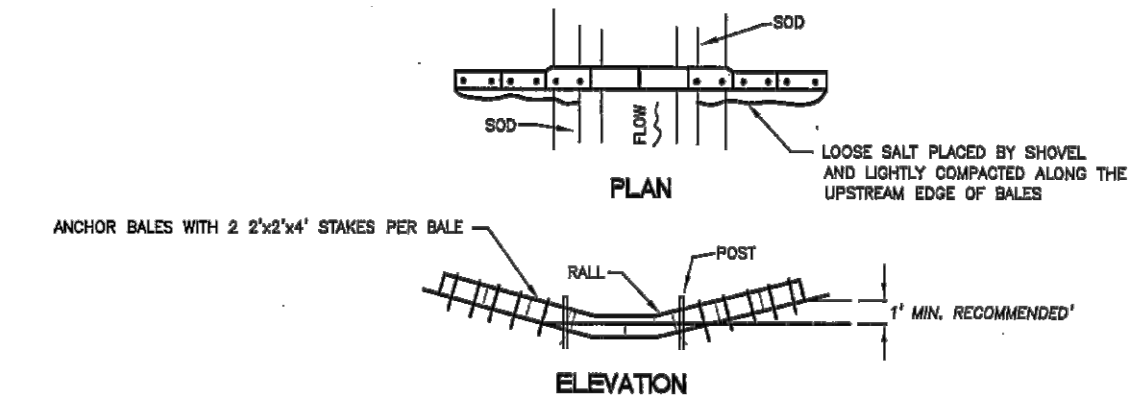
**BARRIER FOR FILL SLOPE**

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL.

**EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES**

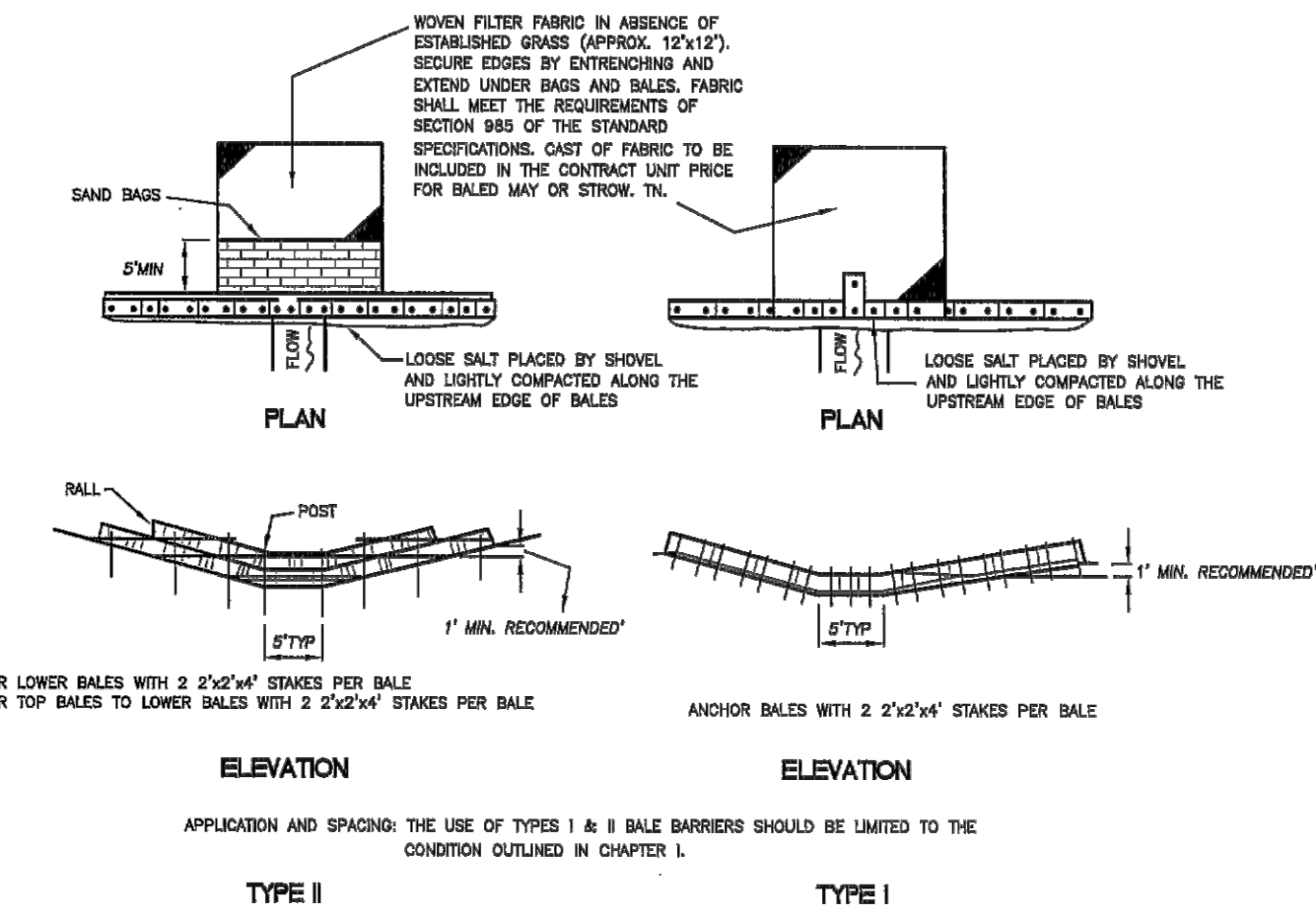
**EXHIBIT 2**

SCALE: N.T.S.  
REFER TO DEPARTMENT OF PUBLIC WORKS  
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STANDARD DETAIL MISC. 35-89-6



SPACING: BALE BARRIERS FOR PAVED DITCHES SHOULD BE SPACED IN ACCORDANCE WITH CHAPTER I.

**BARRIER FOR PAVED DITCHES**



APPLICATION AND SPACING: THE USE OF TYPES I & II BALE BARRIERS SHOULD BE LIMITED TO THE CONDITION OUTLINED IN CHAPTER I.

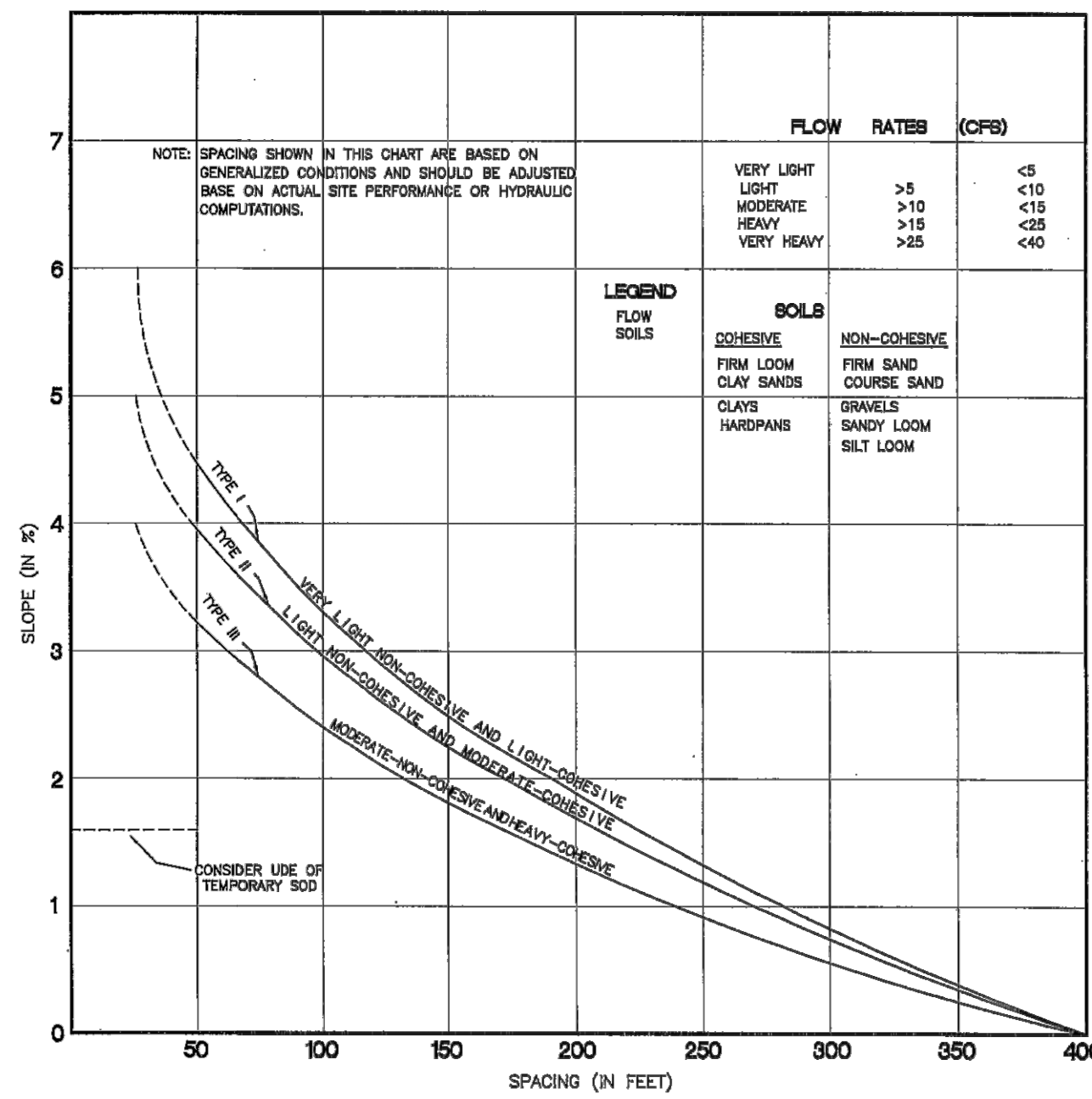
**BARRIER FOR UNPAVED DITCHES**

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL.

**EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES**

**EXHIBIT 3**

SCALE: N.T.S.  
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RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III SILT FENCES

INFORMATION ADAPTED FROM THE FLORIDA DEPARTMENT OF TRANSPORTATIONS STATE DRAINAGE MANUAL.

**EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES**

**EXHIBIT 4**

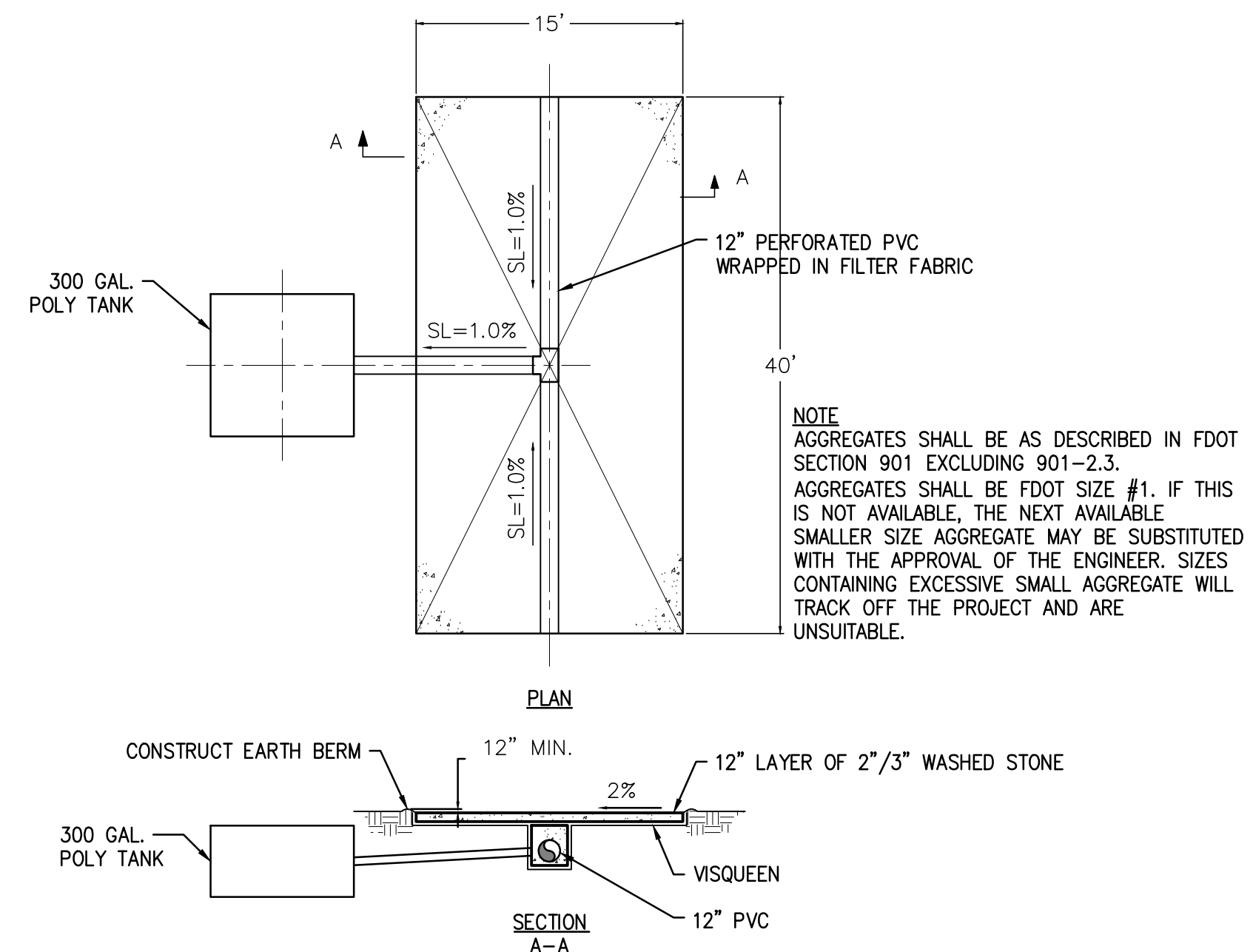
SCALE: N.T.S.  
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CITY OF MIAMI, FLORIDA  
STANDARD DETAIL MISC. 35-89-6

- 1) Tree protection and pruning shall be accomplished as detailed in special provisions, the construction plans, and or per tree ordinance 12636.
- 2) The Storm Water Pollution Prevention Plan, SWPPP, submitted to Public Works, shall describe in detail how the construction effort will be phased with regards to minimizing erosion problems by the use of temporary and permanent erosion control measures, for the various sequences of construction operations. Any modifications must be approved by the City of Miami - NPDES Section, Department of Public Works.
- 3) Environmental control features as provided in the SWPP, are to be installed at all areas of excavation or fill for drainage system, or structure construction prior to such excavation or fill. Inlet entrances are also to be protected from siltation as detailed on sheet 2 of 4 of Misc. 35-89-6.
- 4) All environmental control features are to be maintained throughout the life of the project in accordance with N.P.D.E.S. requirements. The contractor must insure that all erosion control features function properly at all times.
- 5) All erosion and material deposits must be contained within the project limits.
- 6) Any damaged or ineffective rock bags are to be replaced with new ones. The location of rock bags installation is as mentioned in the SWPPP plans. The project engineer may specify other areas as necessary.
- 7) Ditch bottom inlets shall be protected from sediment intake until project is complete. Elevation of ground outside inlet top shall not be higher than inlet top. Rock bags shall be installed around inlet top. Completed inlets in paved areas shall also be protected with rock bags to prevent sediment intake.
- 8) Curb inlets also shall be protected from sediment intake until the project is complete. All exposed sloped material adjacent to inlet, shall be covered with erosion control matting with outer limits protected by rock bags.
- 9) Stockpiled material shall not be left in erosion prone areas unless protected by cover or rock bags.
- 10) Inspection of erosion control measures and condition of adjacent properties, shall be performed daily by the contractor's representative and the project engineer. Deficiencies shall be noted and corrected.
- 11) Any offsite sediment discharge to a municipal separate storm water system arising from the contractor's activities is not allowed. Refer to Public Works Department Bulletin No. 25.
- 12) The use of sanitary sewers, french drains, cover ditches and/or rock drains for the disposal of wastewater is expressly prohibited. Refer to Public Works Department Bulletin No. 25.

\* NPDES - National Pollution Discharge Elimination System

**STROM WATER POLLUTION PREVENTION PRACTICES**

SCALE: N.T.S.  
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**DECONTAMINATION WASH-WATER CONTAINER SYSTEM DETAIL**

SCALE: N.T.S.

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DRAWN BY: JDR

CHECKED BY: WDH

DATE: AUGUST 2016

DRAWING TITLE:

**STORMWATER POLLUTION PREVENTION PLAN DETAILS**

DRAWING NUMBER:

**C-8.1**